



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107-4431

APR 18 1996

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

William J. Gillan, Manager
Safety, Health & Medical
E. I. Du Pont Co. Inc. - Marshall Laboratory
3401 Grays Ferry Avenue
Philadelphia, PA 19156

Dear Mr. Gillan,

The U.S. Environmental Protection Agency (EPA) conducted a CEI inspection at your facility on March 5, 1996. Enclosed is a copy of the inspection report.

The Office of the Resource Conservation and Recovery Act (RCRA) Programs has reviewed the findings of the inspection with respect to the rules and regulations set forth in the Code of Federal Regulations (CFR), Title 40, Parts 260 through 270 and PA Code Title 25 which govern the handling and management of Solid and Hazardous Wastes.

EPA has discussed the findings of the inspection with the Pennsylvania Department of Environmental Protection (PADEP). We have agreed to their doing the follow up correspondence and compliance work to be consistent with their enforcement position on satellite accumulation areas.

Along with a copy of the inspection report I am enclosing a list of EPA publications that you may find of use in your ongoing Pollution Prevention/Waste Minimization efforts. If you have any question or comments, please contact Kenneth J. Cox at (215) 597-6413.

Sincerely,

A handwritten signature in cursive script, appearing to read "Christopher B. Pilla", is written over the typed name.

Christopher B. Pilla, Chief
RCRA Enforcement Branch

Enclosure

cc: Nancy Roncetti (PADEP) w/enclosure
Kenneth J. Cox 3HW100 w/o enclosure
File w/enclosure ✓

RCRA Compliance Evaluation Inspection

E. I. Du PONT CO INC.
MARSHALL LABORATORY
3401 GRAYS FERRY AVENUE
PHILADELPHIA, PENNSYLVANIA 19156

Telephone Number: 215-339-6213

Date of Inspection: March 5, 1996

RCRA Identification Number: PAD002311884

EPA Representative:

George H. Houghton
Environmental Protection
Specialist

Ken Cox
RCRA Enforcement

Facility Representative:

William J. Gillan
Manager
Safety, Health & Medical

Jerome W. Shemechko
Environmental Coordinator
Staff Chemist

BACKGROUND

EPA Region III requested FIP-Annapolis to conduct a RCRA Compliance Evaluation Inspection at DuPont Marshall Laboratory as part of the South/Southwest Philadelphia initiative. EPA had not inspected this facility previously.

FACILITY DESCRIPTION

E.I. DuPont Marshall Laboratory is a research facility for aftermarket car paint. The paint developed here is used to repaint a car; for example, after collision. The laboratory is located on 32 acres of property in south Philadelphia. Staffing is about 500. For the most part, the facility operates five days per week.

PERMIT STATUS

DuPont is operating as an interim status, large quantity generator storing for less than 90 days. The facility does not treat hazardous waste. There are no plans to submit a Part B permit application for storage greater than 90 days.

INSPECTION OBSERVATIONS

Satellite Generation

DuPont Marshall has adopted the EPA satellite accumulation regulations for the laboratory's hazardous waste accumulation. PADEP has not promulgated nor adopted these regulations, although the next version of the regulations reportedly will contain these satellite accumulation provisions. A copy of the instructions, (entitled: "WASTE REQUIREMENTS") which is given to laboratory personnel, is attached for your information.

Building 227 Main Laboratory

The research laboratory consists of four floors with about 15 individual labs on each floor. The first floor is generally reserved for analytical chemistry while the remaining floors are for research. Typically, each lab has two 5 gallon buckets for the accumulation of liquid waste. One bucket is labeled aqueous and the other is labeled non-aqueous. Each bucket location is equipped with a spring hinged lid. The buckets are changed when the liquid level reaches the first chine, approximately 3/4 full. When full, the lab worker places a lid on the bucket and seals the lid. Service Operators make rounds twice daily to collect full buckets. A sign is placed next to the laboratory door stating there is a full bucket for pick up. If the sign is not present, no waste is collected. Also, in each laboratory were green bins for recyclable cans. In addition red bins are used for contaminated waste that is not recyclable and not hazardous. This waste is currently incinerated by Nortru as a residual waste.

This inspector observed 11 separate laboratories in this building. Each of the labs was managing the waste in a manner consistent with DuPont instructions. Aqueous or non aqueous waste is poured into the appropriate bucket. The non-aqueous waste consists of paint solvents, such as; methyl

ethyl keytone, xylene and toluene. The aqueous waste is paint related waste and consists of about 85% water, 3% paint and 12% paint solvent. It is disposed as a combustible waste (flash point greater than 140⁰ degrees) not a hazardous waste at the DuPont facility in Deepwater, New Jersey. Table 1 of this report lists the laboratories and observations. With a few exceptions, all the 5 gallon containers were closed. All the containers were labeled aqueous or non-aqueous with no additional waste description. The words "hazardous waste" were not on any containers in the laboratories. Only a few of the containers were dated. No documented inspection log is maintained for the waste in any of the laboratories.

Spray Booth

There are three small spray booths located on the second floor of building 176 used to test paint formulations. Paper filters are used in the spray booths. Management of the waste was similar to that as observed in the laboratory except here the waste is emptied daily from the 5 gallon accumulation buckets. Labels on the containers were: aluminum waste, non-aqueous and aqueous waste. No dates were observed on any of the containers nor were they found to be leaking.

Semi Works

This operation takes the formulations from the laboratory and mixes them in batches of 100 to 200 gallon quantity. This is to ensure the bench laboratory formulas perform properly when mixed in large quantity for DuPont's customers. Typically, the entire semi-works batch is discarded and never used by DuPont customers. Detailed observations for the Semi-Works are included in table 1.

Semi-Works has three separate buildings: 192, 66, 257. Drums observed were labeled with the words "hazardous waste" but were not dated. The breather bung hole (smaller of the two bung holes) was open on many of the containers. All the drums were in good condition and not leaking. However, no documented inspections are performed for any of the containers.

Warehouse (250 building)

All generated waste in the various areas eventually pass through this area for labeling, dating and storage for less than 90 days. Five gallon quantities of waste are gathered from the labs and transferred to the waste dump room/waste preparation room. Here, the waste is placed in 55 gallon drums labeled aqueous and non-aqueous waste. When full, the drum is labeled with a hazardous waste label and dated. While accumulating, the waste containers have secondary containment. The empty 5 gallon cans are crushed and recycled. Items from the red boxes, noted earlier in this report, are packaged for incineration at the Experimental Station, a DuPont owned facility, or, Nortru, located in Detroit.

The warehouse is used to store virgin products used in the facility's research mission. One section of the warehouse has been reserved for the storage of hazardous waste. The waste containers, consisting mostly 55

gallon drums and a few super sacks, are stored on racks. Although an accurate drum count was not accomplished, there were an estimated 50 drums in storage for disposal. Based on the accumulation dates, none of the waste was stored for greater than 90 days. Waste shipments from this facility are accomplished frequently, about weekly to monthly. A sump that leads to a concreted catch basin is used to capture any spill. Fire suppressant is provided. All of the containers were in good condition, not showing any deterioration or leaks. Only two drums were not dated and all had the yellow DOT hazardous waste label. Inspections are conducted weekly and documented. The inspection form (attached) was appropriate for this area.

TABLE 1
Building 227

LAB NUMBER	NUMBER OF CONTAINERS	COMMENTS
123	1	NO LABEL, 30 TO 45 DAYS BEFORE FULL - 3-4 INCHES OF WASTE, NO DATE
114	1	NON AQUEOUS, CONTAINER OPEN ALL THE TIME; LOCATED IN A HOOD; DATED 10-12-95; PHOTO
230	1	NON AQUEOUS, DATED 15 FEB 96
229	3	AQUEOUS 10 DAYS TO FILL CONTAINER; AQUEOUS WASTE 10 DAYS TO FILL CONTAINER; ALUMINUM AQUEOUS WASTE 1 MONTH TO FILL CONTAINER; NO DATES ON ANY CONTAINER
340	1	NON AQUEOUS WASTE, TWO WEEKS TO FILL CAN
336	2	NON AQUEOUS CONTAINER WAS FULL; AQUEOUS CONTAINER 1/2 FULL
323	3	ALUMINUM AQUEOUS WASTE; AQUEOUS WASTE, DATED 2-2-96; NON AQUEOUS WASTE, DATED 3-1-96
411	2	NON AQUEOUS, FILLED WEEKLY; ALUMINUM WASTE 2-3 WEEKS TO FILL
419	2	AQUEOUS DATED 10-13-95; NON AQUEOUS 10 DAYS TO 3 WEEKS TO FILL
432	2	NON AQUEOUS ABOUT 1 WEEK TO FILL; NON AQUEOUS CONTAINER 3-4 INCHES OF WASTE ABOUT 1 WEEK TO FILL
436	2	AQUEOUS DATED 2-29-96; NON AQUEOUS DATED 1-13-96

TABLE 1 CONTINUED
SEMI WORKS

LOC	NUMBER OF CONTAINERS	COMMENTS
192 BLDG 1ST FLOOR	2	NO DATES ON EITHER DRUM, BOTH WERE LABELED WITH HAZARDOUS WASTE LABEL; BREATHER HOLE OPEN ON TOP OF ONE DRUM
192 BLDG 2ND FLOOR	2	NO DATES; ONE DRUM WAS OPEN AT THE TOP BREATHER HOLE; HAZARDOUS WASTE LABELS
66 BLDG	3	ALL WERE CLOSED; NO DATES; HAZARDOUS WASTE LABELS
66 BLDG 2ND FLOOR	3	ONE DRUM WAS OPEN AT THE BREATHER HOLE
257 BLDG	3	TWO CONTAINERS WERE OPEN AT THE BREATHER HOLES

TABLE 1 CONTINUED

BUILDING 176

LOCATION	NUMBER OF CONTAINERS	COMMENTS
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ROOM 254	2	AQUEOUS CONTAINER FULL: NON AQUEOUS 2-3 INCHES FULL
SPRAY BOOTH 1	2	ALUMINUM NON AQUEOUS WASTE, 2-3 INCHES OF WASTE; AQUEOUS WASTE, 4-5 INCHES OF WASTE; PHOTO
SPRAY BOOTH 2	1	NON AQUEOUS WASTED, OPEN AT TOP
SPRAY BOOTH 3	1	NON AQUEOUS, OPEN AT TOP

ATTACHMENTS

1. Waste shipped in 1996 including both hazardous and non hazardous.
2. Blank container storage form.
3. Waste storage requirements instruction from Du Pont.
4. Manifests: MDC 0555185, NJA2180903, MI4330924, DEA33084, MI4330956.
5. December 31, 1995 quarterly generation report.
6. 1995 Hazardous waste generation report.
7. Generator checklist.

ENFORCEMENT CONFIDENTIAL

SUMMARY OF FINDINGS

1. 40 CFR §262.34(a)(2) Two drums were not dated in the less than 90 day storage area - Building 250
2. 40 CFR §265.173 Bldg 227 Lab 114-container holding hazardous waste was not closed
3. 40 CFR §265.173 Five containers holding hazardous waste were open at the breather hole. These drums were located in the Semi-Works buildings.
4. 40 CFR §265.173 Building 176-(spray booths), two containers were open at the top.
5. 40 CFR §262.34(a)(2)
40 CFR §262.34(a)(3) Currently PADEP does not recognize the EPA satellite accumulation regulations. DuPont is using the satellite regulations for their accumulation areas in the Laboratory (250 building) hence most of the containers in this area are not dated and not marked with the words hazardous waste. The contents markings are limited to aqueous and non-aqueous waste.

Shipped

1996
1005-ML WASTE

Reclaimed

Manifest

1996 MARSHALL LAB HAZARDOUS WASTE SHIPMENTS															
DATE	CONTRACTOR	MANIFEST NUMBER	WASTE STREAM	NON-HAZ LBS.	CONT. CODE	# CONT.	QUANTITY (POUNDS)	CREDIT POUNDS	TRANS. COST DOLLARS	DISP. COST DOLLARS	COPY RETURN	LOOP/REL. NO. B/L	MANIFEST DOC. NO.	REL. #	
1/4/96	NORTRU	MI4330923	GAYLORDS		W-51723	8	7365		1250	3750	YES	DQCF-09621	96001	79	
1/4/96	NORTRU	MI4330923	SOLIDS		W-51724	2	1000			580	YES	DQCF-09621	96001	79	
1/4/96	NORTRU	MI4330923	WASH SOLV.		W-51844	27	12000			1485	YES	DQCF-09621	96001	79	
1/4/96	NORTRU	MI4330923	OFF SPEC.		W-53451	2	900			110	YES	DQCF-09621	96001	79	
1/4/96	NORTRU	MI4330937	RECLAIM SOLV.		W-51725	27	12150	12150			YES	DQCF-09621	96002	79	
1/4/96	NORTRU	MI4330954	CONT. METAL		W-55210	1	1109	1109		499	YES	DQCF-09621	96003	79	
1/4/96	DUPONT	NJA1906571	AQUEOUS		C-09041	29	12325				YES	CHAMBERS WKS.	10096	17	
1/15/96	DUPONT	DEA-33084	WASH SOLV.		W-51844	9	3600				YES	EX. STA.	20096	1	
1/19/96	DUPONT	NJA1906572	AQUEOUS		C-09041	28	12600				YES	CHAMBERS WKS.	30096	18	
1/25/96	NORTRU	MI4330924	GAYLORDS		W-51723	6	5590		1250	4500	YES	DQCF-09753	96004	80	
1/25/96	NORTRU	MI4330924	WASH SOLV.		W-51884	28	11700			1485	YES	DQCF-09753	96004	80	
1/25/96	NORTRU	MI4330924	SMALL CONT.		W-51884S/C	12	4200			3190	YES	DQCF-09753	96004	80	
1/25/96	NORTRU	MI4330938	RECLAIM SOLV.		W-51725	10	4500	4500			YES	DQCF-09753	96004	80	
1/25/96	NORTRU	MI4330938	T.H.F.		W-53235	8	3600	3600			YES	DQCF-09753	96005	80	
1/25/96	NORTRU	MI4330955	CONT. METAL		W-55210	3	3105	3105		1397	YES	DQCF-09753	96006	80	
1/31/96	C. HARBORS	MDC0555185	LAB PACKS	400	LAB PACKS	1					YES	DQCF-09810	55185	13	
1/31/96	C. HARBORS	MDC0555185	LAB PACKS		LAB PACKS	2	90				YES	DQCF-09810	55185	13	
1/31/96	C. HARBORS	PAE5021096	LAB PACKS		LAB PACKS	1	100				YES	DQCF-09810	21096	12	
1/31/96	C. HARBORS	MDC0562233	LAB PACKS	2800	LAB PACKS	9					YES	DQCF-09810	62233	12	
1/31/96	C. HARBORS	MDC0562233	LAB PACKS		LAB PACKS	2	650				YES	DQCF-09810	62233	12	
1/31/96	C. HARBORS	MDC0555187	LAB PACKS	3	LAB PACKS	1					YES	DQCF-09810	55187	12	
1/31/96	C. HARBORS	MDC0555187	LAB PACKS		LAB PACKS	4	101				YES	DQCF-09810	55187	12	
2/1/96	DUPONT	NJA1906574	AQUEOUS		C-09041	24	10800				YES	CHAMBERS WKS.	40096	19	
2/1/96	DUPONT	NJA2283128	LAB PACKS	183	LAB PACKS	18	253				YES	ROLLINS	50096	1	
2/5/96	NORTRU	MI4707587	GAYLORDS		W-51723	2	1883				YES	DQCF-09819	96007	81	
2/5/96	NORTRU	MI4707587	SOLIDS		W-51724	2	1000				YES	DQCF-09819	96007	81	
2/5/96	NORTRU	MI4707587	WASH SOLV.		W-51844	34	15300				YES	DQCF-09819	96007	81	
2/5/96	NORTRU	MI4707587	SMALL CONT.		W-51844S/C	1	300				YES	DQCF-09819	96007	81	
2/5/96	NORTRU	MI4707587	OFF SPEC.		W-53451	8	3600				YES	DQCF-09819	96007	81	
2/5/96	NORTRU	MI4330956	CONT. METAL		W-55210	1	1171	1171			YES	DQCF-09819	96008	81	
2/5/96	NORTRU	MI4330942	RECLAIM SOLV.		W-51725	10	4500	4500			YES	DQCF-09819	96009	81	
2/5/96	NORTRU	MI4330942	T.H.F.		W-53235	12	5400	5400			YES	DQCF-09819	96009	81	
2/12/96	DUPONT	NJA2180902	AQUEOUS		C-09041	28	12600				YES	CHAMBERS WKS.	60096	20	
2/14/96	DUPONT	DEA-33197	WASH SOLV.		W-51844	8	3200				YES	EX. STA.	70096	2	
2/14/96	DUPONT	B/L	USED OIL	980	N/A	4	N/A					EX. STA.	N/A	2	
2/14/96	NORTRU	MI4707588	GAYLORDS		W-51723	5	5241					DQCF-09941	96010	82	
2/14/96	NORTRU	MI4707588	SOLIDS		W-51724	3	1200					DQCF-09941	96010	82	
2/14/96	NORTRU	MI4707588	SMALL CONT.		W-51844S/C	6	2100					DQCF-09941	96010	82	
2/14/96	NORTRU	MI4707588	OFF SPEC.		W-53451	4	1800					DQCF-09941	96010	82	
2/14/96	NORTRU	MI4707645	CONT. METAL		W-55210	3	3502	3502			YES	DQCF-09941	96011	82	
2/14/96	NORTRU	MI4330939	RECLAIM SOLV.		W-51725	15	6750	6750				DQCF-09939	96012	19	
2/14/96	NORTRU	MI4330939	T.H.F.		W-53235	14	6300	6300				DQCF-09939	96012	19	
2/14/96	NORTRU	MI4330939	WASH SOLV.		W-51844	18	8100	6075				DQCF-09939	96012	19	
2/22/96	NORTRU	MI4330931	GAYLORDS		W-51723	3	2912					DQCF-10009	96013	83	
2/22/96	NORTRU	MI4330931	SOLIDS		W-51724	4	1400					DQCF-10009	96013	83	
2/22/96	NORTRU	MI4330931	OFF SPEC.		W-53451S/C	3	900					DQCF-10009	96013	83	
2/22/96	NORTRU	MI4707644	CONT. METAL		W-55210	2	2412	2412			YES	DQCF-10009	96014	83	
2/22/96	NORTRU	MI4330940	RECLAIM SOLV.		W-51725	11	4950	4950				DQCF-10010	96015	20	
2/22/96	NORTRU	MI4330940	T.H.F.		W-53235	21	9450	9450				DQCF-10010	96015	20	
2/22/96	NORTRU	MI4330940	WASH SOLV.		W-51844	19	8550	6413				DQCF-10010	96015	20	
2/22/96	DUPONT	NJA2283253	LAB PACKS		LAB PACKS	8	480					ROLLINS	80096	2	

1995 ML WASTE

[illegible]

Container Storage Area Inspection Form

Items To Be Inspected	Results		Corrective Actions	
	Adequate	Inadequate	Needed	Date Accomplished
AREA				
* Warning Signs Present and Legible		<input type="radio"/>		
* Blockage of Access		<input type="radio"/>		
* Housekeeping		<input type="radio"/>		
* Spillage Evident	<input type="radio"/>			
CONTAINERS				
* Leakage	<input type="radio"/>			
* Spillage	<input type="radio"/>			
* Rust	<input type="radio"/>			
* Damaged	<input type="radio"/>			
* Bulging	<input type="radio"/>			
* Segregated		<input type="radio"/>		
* Proper Label		<input type="radio"/>		
* Palletized		<input type="radio"/>		
aisle space				
* Blocked	<input type="radio"/>			
* Spillage	<input type="radio"/>			
Safety Equipment				
* Safety Shower	<input type="radio"/>			
* Fire Extinguisher's	<input type="radio"/>			
* Ground Wires	<input type="radio"/>			
* Face Shields	<input type="radio"/>			
* Respirator	<input type="radio"/>			
SPILL SUPPLIES				
* Absorbent Available		<input type="radio"/>		
* Spill Locker		<input type="radio"/>		
* Wiper Cans		<input type="radio"/>		
* Brooms, Shovels, etc...	<input type="radio"/>			
OTHER: (Describe)				
GAYLORD CONTAINERS				
(TO BE INSPECTED DAILY)				

Signature of Inspector _____

Date of Inspection _____

Signature of Supervisor _____

Time of Inspection _____

Note: All checks within circles must be addressed under "Corrective Actions"

WASTE REQUIREMENTS

THE FOLLOWING PROCEDURES OUTLINE THE REQUIREMENTS ON MANAGING WASTE IN PROCESS ENGINEERING AREAS. IT IS THE RESPONSIBILITY OF EVERYONE TO DO THEIR PART TO ELIMINATE THE HAZARDS AND FINES THAT CAN RESULT FROM NOT MANAGING THIS AREA PROPERLY.

1) SATELLITE ACCUMULATION AREAS:

***DEFINITION -- PLACE WHERE WASTES INITIALLY ACCUMULATE AT OR NEAR ANY POINT OF GENERATION WHICH IS UNDER THE CONTROL OF THE OPERATOR (PRIMARILY IN OPERATING AREAS) -- PRIOR TO MOVEMENT TO WASTE ACCUMULATION AREA (250 BUILDING).**

***CAN ACCUMULATE LESS THAN 55 GALLONS OF WASTE WITHOUT TIME CONSTRAINTS.**

***WHEN 55 GALLON LIMIT IS REACHED, MARK THE DATE AND MOVE TO 250 BLDG. OR TO ACCUMULATION AREA NEXT TO #248 BLDG. WITHIN 3 DAYS.**

***TWO TYPES IN OUR OPERATION:**

1. **EQUIPMENT AREAS - ACCUMULATION OF WASTE NEAR MILL/TANK DUE TO EQUIPMENT CLEANING.**
 - **WHEN OPERATOR IS FINISHED CLEANING THE EQUIPMENT - OPERATOR SHOULD TAKE THE FULL DRUMS TO THE #250 BLDG. THE DRUMS SHOULD BE STENCILED PROPERLY WITH A HAZ WASTE LABEL FILLED OUT WITH THE ACCUMULATION DATE. (IF THE DRUMS ARE FULL) DO NOT TAKE BUTT DRUMS TO #250 BLDG. LEAVE DRUM NEAR THE EQUIPMENT FOR THE NEXT CLEAN-UP.**
2. **YELLOW AREAS - ACCUMULATION OF SMALL AMOUNTS OF WASTE DUE TO SAMPLING, TESTING, ETC.**
 - **ONE DRUM PER WASTE STREAM ALLOWED (SEPARATED BY SOME DISTANCE). WHEN DRUM IS FULL, MARK THE ACCUMULATION DATE AND TAKE OVER TO #250 BLDG. (OR TO STAGING AREA)**

2) SATELLITE AREA CONTAINER REQUIREMENTS:

- *DRUM MUST BE IN GOOD CONDITION.**
- *IF USING A VENDOR DRUM, IT MUST BE COMPATIBLE WITH THE WASTE STREAM.**
- *DRUM OR FUNNEL MUST BE COVERED WHEN NOT FILLING.**
- *HANDLED SAFELY.**
- *CONTAINER MUST BE STENCILED AND LABELED BEFORE PUTTING WASTE INTO THE CONTAINER.**

3) ITEMS TO BE CHECKED BEFORE TAKING TO 250 BUILDING:

- *MUST BE STENCILED AND LABELED ACCORDING TO DIAGRAM. ALL OTHER MARKINGS MUST BE REMOVED FROM DRUM**
- *NO SPILLAGE WET OR DRY ON OUTSIDE OF CONTAINER.**
- *DRUMS MUST BE FULL.**
- *ALL BUNGS MUST HAVE GASKETS AND BE SECURED.**
- *DRUMS MUST BE PLACED ON PALLET WITH STENCIL FACING OUTWARD.**
- *DRUMS MUST BE LABELLED/STENCILED CORRECTLY BEFORE SERVICE OPERATOR WILL REMOVE FROM STAGING AREA (SIDE OF #248 BLDG.) TO #250 BLDG. 90-DAY AREA.**

MARCH 29, 1993
NOVEMBER 17, 1993 (REVISED)
OCTOBER 26, 1994 (REVIEWED)

PR 5110
Rev. 10/94

Petio-Chem Processing Group
Fuels Blending Services
421 Lyncaste, Detroit, MI 48214
MTD 980615298:

Solvent Distillers Group
Solvent Reclamation
421 Lyncaste, Detroit, MI 48214
MTD 98068-083:

Nortru Resources LP
Rags/Drum Reclamation
611 Hillger, Detroit, MI 48214
MTD 985619824:

Chemical Reclamation Services
Solvent Reclamation Services
405 Powell St., Avalon, TX 76623
TXD 046844700:



HAZARDOUS WASTE RESTRICTED FROM LAND DISPOSAL NOTICE

On Manifest number MI 4330924 line item 11 A,B, C (A,B,C, or D) the waste bearing the EPA Hazardous waste number(s) F003, F005, D001 is subject to the land disposal restriction of 40 CFR Part 268. In accordance with 40 CFR 268.7, this generator is providing notice that the waste does not meet the treatment standards specified in Part 268 Subpart D or does not meet the prohibitions specified in 268.32 or RCRA section 3004 (d). The treatment standards for this restricted waste is/are as follows:

Hazardous Waste Codes	Constituents of Concern	Non-Wastewater Total Composition, mg/kg	Constituents of Concern	Non-Wastewater Total Composition, mg/kg
<input checked="" type="checkbox"/> F001	Acetone	<input checked="" type="checkbox"/> 160	Methyl ethyl ketone	<input checked="" type="checkbox"/> 36
<input type="checkbox"/> F002	n-Butyl alcohol	<input type="checkbox"/> 2.6	Methyl isobutyl ketone	<input type="checkbox"/> 33
<input checked="" type="checkbox"/> F003	Carbon disulfide	<input type="checkbox"/> 4.81(TCLP)	Nitrobenzene	<input type="checkbox"/> 14
<input type="checkbox"/> F004	Carbon tetrachloride	<input type="checkbox"/> 6.0	Pyridine	<input type="checkbox"/> 16
<input checked="" type="checkbox"/> F005	Chlorobenzene	<input type="checkbox"/> 6.0	Tetrachloroethylene	<input type="checkbox"/> 5.0
	o,m,p Cresols	<input type="checkbox"/> 5.6 (ea)	Toluene	<input checked="" type="checkbox"/> 10
	Cyclohexanone	<input type="checkbox"/> 0.72(TCLP)	1,1,1 Trichloroethane	<input type="checkbox"/> 6.0
	1,2 Dichlorobenzene	<input type="checkbox"/> 6.0	1,1,2-Trichloro-1,2,2-	<input type="checkbox"/>
	Ethyl acetate	<input type="checkbox"/> 33	Trifluoroethane	<input type="checkbox"/> 30
	Ethylbenzene	<input type="checkbox"/> 10	Trichloroethylene	<input type="checkbox"/> 6.0
	Ethyl ether	<input type="checkbox"/> 160	Xylenes	<input type="checkbox"/> 30
	Isobutanol	<input type="checkbox"/> 170	2-Ethoxyethanol	<input checked="" type="checkbox"/> INCIN
	Methanol	<input type="checkbox"/> 0.75(TCLP)	2-Nitropropane	<input type="checkbox"/> INCIN
	Methylene chloride	<input type="checkbox"/> 30		

Waste Code	Treatment Sub category	Non-waste water	Technology Based Standards (261.42)
<input type="checkbox"/> D001	Ignitable liquids based on 40 CFR 261.21, except for the 261.21(a)(1) High TOC Sub category, managed in Non-CWA/Non CWA equivalent, non-Class 1 SDWA Systems	<input type="checkbox"/>	DEACT & meet UTS, or RORGS, or CMBST
<input type="checkbox"/> D001	Ignitable characteristic wastes, except for the 261.21(a)(1) High TOC Subcategory, that are managed in CWA/CWA-equivalent/Class 1 SDWA systems	<input type="checkbox"/>	DEACT
<input checked="" type="checkbox"/> D001	Ignitable liquids based on 40 CFR 261.21(a)(1) - High TOC Ignitable Liquid Subcategory - greater than or equal to 10% TOC	<input checked="" type="checkbox"/>	RORGS or CMBST

Waste Code	Non-waste water	Treatment Subcategory (if applicable)
D004 Arsenic	<input type="checkbox"/>	
D005 Barium	<input type="checkbox"/>	
D006 Cadmium	<input type="checkbox"/>	
D007 Chromium (Total)	<input type="checkbox"/>	
D008 Lead	<input type="checkbox"/>	
D009 Mercury	<input type="checkbox"/>	
D010 Selenium	<input type="checkbox"/>	
D011 Silver	<input type="checkbox"/>	
D012 Endrin	<input type="checkbox"/>	
D013 Lindane	<input type="checkbox"/>	
D014 Methoxychlor	<input type="checkbox"/>	
D015 Toxaphene	<input type="checkbox"/>	

NORTRU INC. 515 LYCASTE STREET, DETROIT, MICHIGAN 48214

D016 2,4-D (2,4-Dichlorophenoxyacetic acid)	<input type="checkbox"/>	_____
D017 Silvex	<input type="checkbox"/>	_____
D018 Benzene	<input type="checkbox"/>	_____
D019 Carbon Tetrachloride	<input type="checkbox"/>	_____
D020 Chlordane	<input type="checkbox"/>	_____
D021 Chlorobenzene	<input type="checkbox"/>	_____
D022 Chloroform	<input type="checkbox"/>	_____
D023 o-Cresol	<input type="checkbox"/>	_____
D024 m-Cresol	<input type="checkbox"/>	_____
D025 p-Cresol	<input type="checkbox"/>	_____
D026 Total Cresols	<input type="checkbox"/>	_____
D027 p-Dichlorobenzene	<input type="checkbox"/>	_____
D028 1,2-Dichloroethane	<input type="checkbox"/>	_____
D029 1,1-Dichloroethylene	<input type="checkbox"/>	_____
D030 2,4-Dinitrotoluene	<input type="checkbox"/>	_____
D031 Heptachlor	<input type="checkbox"/>	_____
D032 Hexachlorobenzene	<input type="checkbox"/>	_____
D033 Hexachlorobutadiene	<input type="checkbox"/>	_____
D034 Hexachloroethane	<input type="checkbox"/>	_____
D035 Methyl Ethyl Ketone	<input type="checkbox"/>	_____
D036 Nitrobenzene	<input type="checkbox"/>	_____
D037 Pentachlorophenol	<input type="checkbox"/>	_____
D038 Pyridine	<input type="checkbox"/>	_____
D039 Tetrachloroethylene	<input type="checkbox"/>	_____
D040 Trichloroethylene	<input type="checkbox"/>	_____
D041 2,4,5-Trichlorophenol	<input type="checkbox"/>	_____
D042 2,4,6-Trichlorophenol	<input type="checkbox"/>	_____
D043 Vinyl Chloride	<input type="checkbox"/>	_____

Note: For D012-D043, check off those underlying hazardous constituents from Universal Treatment Standard list located on Addendum

List Additional Codes below:

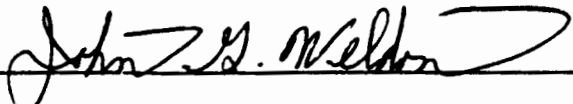
Waste Code	Treatment Sub category	Non-waste water	Waste Code	Treatment Sub category	Non-waste water
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>

_____ *The above listed waste can be land disposed without further treatment as stated in the 40 CFR 268.7 (a)(2).

XXXXXX *The above listed waste is subject to an exemption from a prohibition as stated in the 40 CFR 268.7 (a)(3).

Notification:

Generator Firm Name: E.I. DUPONT DE NEMOURS & CO. - MARSHALL LABS

Generator Signature: 

Printed Name & Title: JOHN G. WELDON ENV. COORDINATOR

EPA ID No: PAD 002 311 884 Date: 1-25-96

NORTRU INC. 515 LYCASTE STREET, DETROIT, MICHIGAN 48214



State of New Jersey
Department of Environmental Protection
Hazardous Waste Regulation Program
Manifest Section
CN 421, Trenton, NJ 08625-0421

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. PAD00231188490046		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law			
Generator's Name and Mailing Address E.I. DUPONT CO., INC. MARSHALL LABS 3401 GRAYS FERRY AVE. PHILA, PA. 19146						A. State Manifest Document Number NJA 2180903					
Generator's Phone 215 339-6629 ATTN: JOHN WELDON						B. State Generator's ID (Gen. Site Address) SAME					
Transporter 1 Company Name E.I. DUPONT CO., INC.						C. State Trans. ID-NJDEPE 06207					
Transporter 1 US EPA ID Number DE0003930807						Decal No. 91046					
Transporter 2 Company Name						D. Transporter's Phone 302-999-5092					
Transporter 2 US EPA ID Number						E. State Trans. ID-NJDEPE					
Designated Facility Name and Site Address E.I. DUPONT CO., INC. W.W.T.P. RT. 130 CHAMBERS WKS. DEEP WATER, N.J. 08023						Decal No.					
Facility's US EPA ID Number NTD002385730						F. Transporter's Phone SAME					
Facility's Phone 609-544-2269						G. State Facility's ID					
H. Facility's Phone						I. Waste No.					
11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) RM WASTE COMBUSTIBLE LIQUID, N.O.S., NA1993, III (F003, F005, D035) ERG 27						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. X						028 DM12600P		F003			
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above CONTAINS LESS THAN 5% TOLUENE, TETRAHYDROFUR						K. Handling Codes for Wastes Listed Above T 0 1					
L. ADDITIONAL WASTE CODES F003, D035											
M. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION ALL INFORMATION IN CXC31 PERTAINS TO LINE 11A CONTACT NUMBER 00105 RELEASE NUMBER 21 IN CASE OF EMERGENCY CALL 1-302-366-5179 OR 1-302-366-5300											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name JOHN G. WELDON						Signature <i>John G. Weldon</i>		Month Day Year 02 26 96			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name JOHN DIGATI JR.						Signature <i>John Digati Jr.</i>		Month Day Year 02 26 96			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature		Month Day Year			
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Kenneth Reed						Signature <i>Kenneth Reed</i>		Month Day Year 02 26 96			

Notification and Certification Form



DuPont Environmental Treatment

OWB No. 00105
Release No. 21

(please fill in)

Chambers Works Wastewater Treatment Facility Land Disposal Restrictions

1. Generator's EPA ID No. PAD-002311884 Hazardous Waste Manifest No. NJA2190903
Generator FEEDBACK CORP. INC. MARSHALL LABS
Generator's Address 3471 GRAVES FERRY AVE Manifest Page No./Line Letter L1A
PHILADELPHIA, PA. 19146 (for drummed aqueous waste only)

Note: The DuPont Chambers Works Wastewater Treatment Plant (WWTP) is regulated under the Clean Water Act.

2. Is this waste subject to the Land Disposal Restrictions set forth in 40 CFR 268? ☒ Yes ☐ No
If no, check reason: ☐ Nonhazardous ☐ Newly identified or newly listed (write waste codes in Table B on page 2)
3. In Table A, check (if applicable) the characteristic U.S. EPA hazardous waste codes that apply to this waste. For each waste checked, identify whether the waste is a wastewater or nonwastewater, and indicate how the waste must be managed based on options found on page 2.

TABLE A

Check Waste Code	U.S. EPA Hazardous Waste Code	Subcategory	Waste-water	Non-waste-water	How must the waste be managed?
			(Check only one)		(Enter the letter from page 2)
___	D001	Low TOC (<10% TOC)	___	___	___
___	D001	High TOC (≥ 10% TOC)	NA	___	___
___	D001	Oxidizer	___	___	___
___	D002	Acid (pH ≤ 2)	___	___	___
___	D002	Alkaline (pH ≥ 12.5)	___	___	___
___	D002	Other corrosives	___	___	___
___	D003	Reactive sulfides	___	___	___
___	D003	Reactive cyanides	___	___	___
___	D003	Water reactive	___	___	___
___	D003	Explosives (pretreated)	___	___	___
___	D003	Other reactives	___	___	___
___	D004	Arsenic	___	___	___
___	D005	Barium	___	___	___
___	D006	Cadmium	___	___	___
___	D007	Chromium	___	___	___
___	D008	Lead	___	___	___
___	D009	Mercury	___	NA	___
___	D009	Low Mercury <260 mg/kg Hg	NA	___	___
___	D010	Selenium	___	___	___
___	D011	Silver	___	___	___

Attachment II



DuPont Environmental Treatment

Treatment Standards for F001-F005 Spent Solvents

Instructions: Mark the box beside the appropriate code(s) included in the shipment. Mark the individual constituents present waste.*

*Optional for wastes treated at the DuPont Chambers Works Wastewater Treatment Plant (WWTP). The WWTP monitors all F005 regulated constituents in its treatment residues.

Hazardous Waste Description	Constituents of Concern	Wastewater Total Composition (mg/l)	Nonwastew Total Compe (mg/kg)
<input checked="" type="checkbox"/> F001-F005 Solvent Wastes (Contains any combination of one or more of these spent solvents)	<input checked="" type="checkbox"/> Acetone	0.28	160
	<input type="checkbox"/> Benzene	0.14	10
	<input type="checkbox"/> n-Butyl alcohol	5.6	2.6
	<input type="checkbox"/> Carbon disulfide	3.8	4.8 mg/l [T]
	<input type="checkbox"/> Carbon tetrachloride	0.057	6.0
	<input type="checkbox"/> Chlorobenzene	0.057	6.0
	<input type="checkbox"/> o-Cresol	0.11	5.6
	<input type="checkbox"/> m-Cresol	0.77	5.5
	<input type="checkbox"/> p-Cresol	0.77	5.6
	<input type="checkbox"/> Cresols-mixed isomers (Cresylic acid)	0.88	11.2
	<input type="checkbox"/> Cyclohexanone	0.36	0.75 mg/l [T]
	<input type="checkbox"/> o-Dichlorobenzene	0.088	6.0
	<input type="checkbox"/> Ethyl acetate	0.34	33
	<input type="checkbox"/> Ethyl benzene	0.057	10
	<input type="checkbox"/> Ethyl ether	0.12	160
	<input type="checkbox"/> Isobutanol	5.6	170
	<input type="checkbox"/> Methanol	5.6	0.75 mg/l [T]
	<input type="checkbox"/> Methylene chloride	0.089	30
	<input checked="" type="checkbox"/> Methyl ethyl ketone	0.28	36
	<input type="checkbox"/> Methyl isobutyl ketone	0.14	33
	<input type="checkbox"/> Nitrobenzene	0.068	14
	<input type="checkbox"/> Pyridine	0.014	16
	<input type="checkbox"/> Tetrachloroethylene	0.056	6.0
	<input checked="" type="checkbox"/> Toluene	0.080	10
	<input type="checkbox"/> 1,1,1-Trichloroethane	0.054	6.0
	<input type="checkbox"/> 1,1,2-Trichloroethane	0.054	6.0
	<input type="checkbox"/> 1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	30
	<input type="checkbox"/> Trichloroethylene	0.054	6.0
	<input type="checkbox"/> Trichloromono-fluoromethane	0.020	30
	<input type="checkbox"/> Xylenes-mixed isomers	0.32	30
<input type="checkbox"/> F005 Solvent Wastes (Contains only one of these as sole F001-F005 solvent)	<input type="checkbox"/> 2-Nitropropane	(WETOX or CHOXD) ^{fb}	INCIN
	<input type="checkbox"/> 2-Ethoxyethanol	CARBN; or INCIN BIODG; or INCIN	INCIN

Chambers Works Wastewater Treatment Facility Land Disposal Restrictions (cont.)

4. In Table B, identify all additional characteristic, listed, newly identified, and newly listed U.S. EPA hazardous waste codes that apply to this waste. For each waste code, identify the subcategory, indicate whether the waste is a wastewater or nonwastewater, and indicate how the waste must be managed, based on the options below.

TABLE B

U.S. EPA HAZARDOUS WASTE CODE(S) Per 40 CFR 261	SUBCATEGORY		Waste- water	Non- waste- water	HOW MUST THE WASTE BE MANAGED?
			(Check only one)		Enter the letter from options below*
	Description	None			
F003		✓		✓	A
F005		✓		✓	A
D035		✓		✓	A

(Use Attachment I if more room is needed to list all applicable waste codes)

5. Is waste analysis information attached? ☐ Yes ☐ Not available
6. If this waste is subject to the California List Restrictions [40 CFR 268.32; RCRA Section 3004(d)], check which of the following apply:
- ☐ Nickel ≥ 134 mg/l ☐ Thallium ≥ 130 mg/l ☐ HOCs** ≥ 1000 mg/l ☐ Cyanides ≥ 1000 mg/l
- **Halogenated Organic Compounds [40 CFR 268 Appendix III]
7. If this waste is a spent solvent (F001-F005), include Attachment II, Treatment Standards for F001-F005 Spent Solvents.
8. If this waste is a multisource leachate (F039), include Attachment III, Treatment Standards for F039 Multisource Leachate Wastewater.
- *HOW MUST THE WASTE BE MANAGED? (Choose from the following options to complete Tables A and B.)

- ☒ A. Restricted waste requires treatment.
- ☐ B. Restricted waste meets applicable treatment standards.

GENERATOR'S CERTIFICATION [40 CFR 268.7(a)(2)(ii)]

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

- C. Waste is newly listed or newly identified. (Note: This includes D018-D043 treated at the WWTP.)
- D. Restricted waste is exempt from the Land Disposal Restrictions. Check the reason below and write in the date the waste is subject to prohibitions.
- ☐ The waste has been granted a Site-Specific Variance. _____
- ☐ The waste has been given a Case-by-Case Extension. _____
- ☐ The waste is subject to a National Capacity Variance. _____
- E. Restricted waste has been treated to remove the hazardous characteristic D001, D002, and/or D012-D043 and requires treatment of underlying hazardous constituents.

CHARACTERISTIC WASTE - UNDERLYING HAZARDOUS CONSTITUENTS [40 CFR 268.7(b)(5)(iv)]

I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

CERTIFICATION

I certify that, to the best of my knowledge, the information provided in this document is true, accurate, and complete.

John D. Miller Env. Coordinator 2-26-96
Authorized Signature Title Date

MDC 0555185

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(A)(1), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS -- COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).

Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.

Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.

Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

1 = The waste is a characteristic hazardous waste D001 or D002 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.

1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGs) or combustion (CMBST) technology. UHC's are NOT required to be identified.

2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGs) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.

3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and UHC's would be required to be identified for a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D012-17 non-wastewater, or D018-43 treated/disposed in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system.

4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(1)(iv)(A): (1) "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45"; and (2) the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Sections III and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.

5 = The waste is a characteristic waste D003-11, a characteristic waste D012-17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.

6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

SECTION I. CHARACTERISTIC WASTES D001 THROUGH D011

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
<u>11A</u>	<input checked="" type="checkbox"/> D001 Ignitables, except High TOC subcategory	<input type="checkbox"/> WW <input checked="" type="checkbox"/> Non-WW	1 <u>2</u> 3 4 6
	<input type="checkbox"/> D001 High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	<input type="checkbox"/> Non-WW only	1A 3 6
	<input type="checkbox"/> D002 Corrosives	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	1 2 3 4 6
	<input type="checkbox"/> D003		
	<input type="checkbox"/> Reactive Sulfides	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> Reactive Cyanides	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> Explosives	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> Water Reactives	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> Other (per §261.23(a)(1))	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> D004 Arsenic	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> D005 Barium	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> D006		
	<input type="checkbox"/> Cadmium	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> Cadmium Containing Batteries	<input type="checkbox"/> Non-WW only	3 5 6
<u>11B</u>	<input checked="" type="checkbox"/> D007 Chromium	<input type="checkbox"/> WW <input checked="" type="checkbox"/> Non-WW	3 4 <u>5</u> 6
	<input type="checkbox"/> D008		
	<input type="checkbox"/> Lead	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> Lead Acid Batteries	<input type="checkbox"/> Non-WW only	3 5 6
	<input type="checkbox"/> D009		
	<input type="checkbox"/> Low Mercury, less than 260 mg/kg Mercury	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5
	<input type="checkbox"/> High Mercury Organic Subcategory	<input type="checkbox"/> Non-WW only	3 4 5
	<input type="checkbox"/> High Mercury Inorganic Subcategory	<input type="checkbox"/> Non-WW only	3 4 5
	<input type="checkbox"/> D010 Selenium	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6
	<input type="checkbox"/> D011 Silver	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3 4 5 6

SECTION II. CHARACTERISTIC WASTES D012 THROUGH D043

- [] Check here if the waste is a D012-17 wastewater. If so, the waste must be treated using one of the treatment technologies (e.g., INCIN) specified in the Treatment Standard Table in 40 CFR 268.40. Complete Columns 1 through 3 below, and circle Handling Code 5 in Column 4. UHC's are NOT required to be identified.
- [] Check here if the waste is a D012-17 non-wastewater or a D018-43 that is intended to be treated in a CWA system, CWA-equivalent system, or Class I SDWA system. If so, the waste is EXEMPT from the LDR regulations, and no further information is required. DO NOT complete Columns 1 through 4 below.
- [] Check here if the waste is a D012-17 non-wastewater or D018-43 that is intended to be treated in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system. If so, complete Columns 1 through 4 below.

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / NAME	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] D012 Endrin	[] WW [] Non-WW	2 3 4 5 6
	[] D013 Lindane	[] WW [] Non-WW	2 3 4 5 6
	[] D014 Methoxychlor	[] WW [] Non-WW	2 3 4 5 6
	[] D015 Toxaphene	[] WW [] Non-WW	2 3 4 5 6
	[] D016 2,4-D	[] WW [] Non-WW	2 3 4 5 6
	[] D017 2,4,5-TP (Silvex)	[] WW [] Non-WW	2 3 4 5 6
	[] D018 Benzene	[] WW [] Non-WW	2 3 4 6
	[] D019 Carbon tetrachloride	[] WW [] Non-WW	2 3 4 6
	[] D020 Chlordane	[] WW [] Non-WW	2 3 4 6
	[] D021 Chlorobenzene	[] WW [] Non-WW	2 3 4 6
	[] D022 Chloroform	[] WW [] Non-WW	2 3 4 6
	[] D023 o-Cresol	[] WW [] Non-WW	2 3 4 6
	[] D024 m-Cresol	[] WW [] Non-WW	2 3 4 6
	[] D025 p-Cresol	[] WW [] Non-WW	2 3 4 6
	[] D026 Cresol	[] WW [] Non-WW	2 3 4 6
	[] D027 1,4-Dichlorobenzene	[] WW [] Non-WW	2 3 4 6
	[] D028 1,2-Dichloroethane	[] WW [] Non-WW	2 3 4 6
	[] D029 1,1-Dichloroethylene	[] WW [] Non-WW	2 3 4 6
	[] D030 2,4-Dinitrotoluene	[] WW [] Non-WW	2 3 4 6
	[] D031 Heptachlor (and its epoxide)	[] WW [] Non-WW	2 3 4 6
	[] D032 Hexachlorobenzene	[] WW [] Non-WW	2 3 4 6
	[] D033 Hexachlorobutadiene	[] WW [] Non-WW	2 3 4 6
	[] D034 Hexachloroethane	[] WW [] Non-WW	2 3 4 6
	[] D035 Methyl ethyl ketone	[] WW [] Non-WW	2 3 4 6
	[] D036 Nitrobenzene	[] WW [] Non-WW	2 3 4 6
	[] D037 Pentachlorophenol	[] WW [] Non-WW	2 3 4 6
	[] D038 Pyridine	[] WW [] Non-WW	2 3 4 6
	[] D039 Tetrachloroethylene	[] WW [] Non-WW	2 3 4 6
	[] D040 Trichloroethylene	[] WW [] Non-WW	2 3 4 6
	[] D041 2,4,5-Trichlorophenol	[] WW [] Non-WW	2 3 4 6
	[] D042 2,4,6-Trichlorophenol	[] WW [] Non-WW	2 3 4 6
	[] D043 Vinyl Chloride	[] WW [] Non-WW	2 3 4 6

SECTION III. SPENT SOLVENT WASTES F001 THROUGH F005

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / CONSTITUENTS	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
	[] F001 [] F002 [] F003 [] F004 [] F005 [] WW [] Non-WW		3 4 5 6
	[] 1. ALL F001-F005	[] 12. Cyclohexanone	[] 25. Pyridine
	[] 2. Acetone	[] 13. o-Dichlorobenzene	[] 26. Tetrachloroethylene
	[] 3. Benzene	[] 14. 2-Ethoxyethanol (F005 only)	[] 27. Toluene
	[] 4. n-Butyl alcohol	[] 15. Ethyl acetate	[] 28. 1,1,1-Trichloroethane
	[] 5. Carbon disulfide	[] 16. Ethyl benzene	[] 29. 1,1,2-Trichloroethane
	[] 6. Carbon tetrachloride	[] 17. Ethyl ether	[] 30. Trichloroethylene
	[] 7. Chlorobenzene	[] 18. Isobutyl alcohol	[] 31. 1,1,2-Trichloro-1,2,2-trifluoroethane
	[] 8. o-Cresol	[] 19. Methanol	[] 32. Trichloromonofluoromethane
	[] 9. m-Cresol (difficult to distinguish from p-cresol)	[] 20. Methylene chloride	[] 33. Xylene - mixed isomers (sum of o-, m-, and p-xylene)
	[] 10. p-Cresol (difficult to distinguish from m-cresol)	[] 21. Methyl ethyl ketone	
	[] 11. Cresol - mixed isomers (sum of o-, m- and p-cresol)	[] 22. Methyl isobutyl ketone	
		[] 23. Nitrobenzene	
		[] 24. 2-Nitropropane (F005 only)	

SECTION IV. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE					
	Hazardous waste containing one or more of the following California List constituents:	<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	1	2	3	4	5	6
	<input type="checkbox"/> ALL CALIFORNIA LIST CONSTITUENTS							
	<input type="checkbox"/> Liquids with nickel greater than or equal to 134 mg/l							
	<input type="checkbox"/> Liquids with thallium greater than or equal to 130 mg/l							
	<input type="checkbox"/> Liquids with PCB's > or = 50 ppm							
	<input type="checkbox"/> Waste containing HOC's > or = 1,000 mg/kg							

SECTION V. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE					
		<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3	4	5	6		
		<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3	4	5	6		
		<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3	4	5	6		
		<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3	4	5	6		
		<input type="checkbox"/> WW <input type="checkbox"/> Non-WW	3	4	5	6		

☐ CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
☐ CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION VI. CONTACT NAME AND DATE

Print Name: John Weldon Date: 1/31/96

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGs) or combustion (CMBST) technology. Examples of RORGs technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS), with the following exceptions: (1) F001-F005 wastewaters are solvent-water mixtures that contain less than 1% by weight TOC or less than 1% by weight total F001-F001 solvent constituents listed in the table "Treatment Standards for Hazardous Wastes" in Section 268.40; (2) K011, K013, and K014 wastewaters contain less than 5% by weight TOC and less than 1% by weight TSS, as generated; and (3) K103 and K104 wastewaters contain less than 4% by weight TOC and less than 1% by weight TSS. [See 40 CFR 268.2(f)]

Clean Harbors
Printed On: 1/30/96
Generator: C4-1344

Lab Pack Packing List
Page: 1

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TSDF: CLEAN HARBORS OF BALTIMORE, INC

TSD Number:

Shipment Number: MDC0555185

Container Number: 0000000720

Container Type: 50.0000 P Fiberboard or plastic drums (DF)

Hazardous Class: Class 9

UN/NA Number: NA3077

Haz. Material: H

Regulated: R

Packing Material: MG, KW, FG, SB

Treatment Code: 2-LCCRC-30

Proper Shipping Name:

RQ, Hazardous waste, solid, n.o.s.,

(D007), 9, NA3077, PG III

Quantity	Hazardous Substance	EPA Codes	L/S	Item Number
1.00 P	CHROMIUM OXIDE	D007	S	0000005341
1.00 P	CHROMIUM OXIDE	D007	S	0000005342
1.00 P	CHROMIUM OXIDE	D007	S	0000005343
1.00 P	CHROMIUM OXIDE	D007	S	0000005344
1.00 P	CHROMIUM OXIDE	D007	S	0000005345
1.00 P	CHROMIUM OXIDE	D007	S	0000005346
1.00 P	CHROMIUM OXIDE	D007	S	0000005347
1.00 P	CHROMIUM OXIDE	D007	S	0000005348
1.00 P	CHROMIUM OXIDE	D007	S	0000005349
1.00 G	ACRYLIC POLYMER		L	0000005350
1.00 G	ACRYLIC POLYMER		L	0000005351
5.00 G	polytetrafluoroethylene		L	0000005352

See Reference: in 5g metal

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San Harbora
Inted-02 1/30/96
erator: C4-1344

Lab Pack Packing List
Page: 1

TSDF: CLEAN HARBORS OF BALTIMORE, INC

ISO Number:

Shipment Number: HDC0555185

Container Number: 0000000510

Container Type: 30,000 P Fiberboard or plastic drums

Number of Containers: 1

UN NA Number: NA3077

Haz. Material: H

Regulated: E

Shipping Material: MS, KW, PG, PB

Treatment Code: 2-LC060 00

Proper Shipping Name:

RQ, Hazardous waste, solid, n.o.s.,

(D007), 9. NA3077, PG III

Quantity	Hazardous Substance	EPA Codes	L/S	Item Number
1.00 P	CHROMIUM OXIDE	D007	S	0000005341
1.00 P	CHROMIUM OXIDE	D007	S	0000005341
1.00 P	CHROMIUM OXIDE	D007	S	0000005343
1.00 P	CHROMIUM OXIDE	D007	S	0000005344
1.00 P	CHROMIUM OXIDE	D007	S	0000005345
1.00 P	CHROMIUM OXIDE	D007	S	0000005346
1.00 P	CHROMIUM OXIDE	D007	S	0000005347
1.00 P	CHROMIUM OXIDE	D007	S	0000005348
1.00 P	CHROMIUM OXIDE	D007	S	0000005349
1.00 G	ACRYLIC POLYMER		L	0000005350
1.00 G	ACRYLIC POLYMER		L	0000005351
5.00 G	polytetrafluoroethylene		L	0000005352

Reference: in 50 metal

ean Harbors
inted On: 1/30/96
erator: C4-1344

Lab Pack Packing List
Page: 2

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TSD: CLEAN HARBORS OF BALTIMORE, INC

TSD Number:

Shipment Number: MDC0555185

Container Number: 0000000721

Container Type: 40.0000 P Fiberboard or plastic drums (DF)

Hazardous Class: Flammable Solid 4.1

UN/NA Number: UN3089

Haz. Material: H

Regulated: R

Packing Material: MG, KW, FG, SB

Treatment Code: 1-LCCRRD-30 RCTV WGHT:40#

Proper Shipping Name:

WASTE METAL POWDERS, FLAMMABLE,

NOS, 4.1, UN3089, PGII

Quantity	Hazardous Substance	EPA Codes	L/S Item Number
40.00 P	STAINLESS STEEL POWDER	D001	S 0000005353
Reference: IN 5G METAL			

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Clean Harbors
Printed On: 1/30/96
Generator: C4-1344

Lab Pack Packing List
Page: 2

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TSDF: CLEAN HARBORS OF BALTIMORE, INC

TSD Number:

Shipment Number: MDC0555185

Container Number: 0000000721

Container Type: 40.0000 P Fiberboard or plastic drums (DF)

Hazardous Class: Flammable Solid 4.1

UN/NA Number: UN3089

Haz. Material: H

Regulated: R

Packing Material: MG, KW, FG, SB

Treatment Code: 1-LCCRRD-30 RCTV WGHT:40#

Proper Shipping Name:

WASTE METAL POWDERS, FLAMMABLE,
NOS, 4.1, UN3089, PGII

Quantity	Hazardous Substance	EPA Codes	L/S Item Number
40.00 P	STANLESS STEEL POWDER	D001	S 0000005353
em Reference: IN 5G METAL			

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STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
HAZARDOUS WASTE MANAGEMENT BRANCH, 89 KINGS HIGHWAY
P.O. BOX 1401, DOVER, DELAWARE 19903

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

IN CASE OF EMERGENCY OR SPILL IMMEDIATELY CALL THE DELAWARE EMERGENCY RESPONSE (800) 662-8802 AND THE NATIONAL RESPONSE CENTER (800) 424-8802

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address E.I. DUPONT CO., INC. - MARSHALL LABS 3401 GRAYS FERRY AVE. PHILA. PA. 19146		6. US EPA ID Number DEDD003930807		A. State Manifest Document Number DE-A-33084		
4. Generator's Phone (215) 339-6629 ATTN: JOHN WELDON		8. US EPA ID Number		B. State Generator's ID SAME		
5. Transporter 1 Company Name E.I. DUPONT CO., INC.		10. US EPA ID Number		C. State Transporter's ID DE-HW-433		
7. Transporter 2 Company Name		10. US EPA ID Number		D. Transporter's Phone 302-999-5092		
9. Designated Facility Name and Site Address E.I. DUPONT CO., INC. EXPERIMENTAL STATION - RT. 141 WILM., DE. 19898		10. US EPA ID Number DEDD003930807		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID SAME		
				H. Facility's Phone 302-695-1080		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a. RQ, WASTE FLAMMABLE LIQUID, N.O.S., 3, UN1993, II (D001, F003, F005, D035) ER627 009 DM 03600 P D001		No.	Type			
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above LINE 11A - PLANT CODE - MAR 020		K. Handling Codes for Wastes Listed Above				
		a. C		b.		
		c.		d.		
15. Special Handling Instructions and Additional Information SEE PACKING SLIP FOR ADDITIONAL INFORMATION IN CASE OF EMERGENCY CALL 302-366-5179 OR 302-366-5300						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name JOHN G. WELDON		Signature John G. Weldon		Month Day Year 01/15/96		
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature Martin Reed		Month Day Year 01/15/96		
Printed/Typed Name MARTIN REED		Signature		Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year		
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name John Reed		Signature John Reed		Month Day Year 01/15/96		

E. I. DuPont, Experimental Station
Route 141
Wilmington, DE 19880-0249
TSDF EPA I.D.# DED003930807

Generator Name: DuPont Co., Inc. MARSHALL LABS
Generator Address: 3401 GRAYS FERRY AVE.
PHILA, PA. 19146

Generator EPA I.D.#: PAD00231/884
Manifest Doc. No.: 20096
State Manifest Doc. No.: DEA-33084
Manifest Page No./Line Letter(s): 1/A
Plant Waste Code(s): MAR-020

ATTACHMENT II
F001 - F005 SPENT SOLVENT LAND BAN NOTIFICATION

* X * all Spent
Solvents Present

F001 through F005 spent solvent constituents

Circle Appropriate
Total Concentration

Wastewaters

Nonwastewaters

<u>X</u>	Acetone	0.28	<u>160</u>
<u> </u>	Benzene	0.14	10
<u> </u>	n-Butyl alcohol	5.8	28
<u> </u>	Carbon disulfide	3.8	NA(4.8 mg/l TCLP)
<u> </u>	Carbon tetrachloride	0.057	6.0
<u> </u>	Chlorobenzene	0.057	6.0
<u> </u>	o-Cresol	0.11	5.8
<u> </u>	m-Cresol	0.77	5.8
<u> </u>	p-Cresol	0.77	5.8
<u> </u>	Cresols-mixed isomers	0.88	11.2
<u> </u>	Cyclohexanone	0.38	NA(0.75 mg/l TCLP)
<u> </u>	o-Dichlorobenzene	0.088	6.0
<u> </u>	2-Ethoxyethanol	INCIN or BIODG	INCIN
<u> </u>	Ethyl acetate	0.34	33
<u> </u>	Ethyl benzene	0.057	10
<u> </u>	Ethyl ether	0.12	160
<u> </u>	Isobutanol	5.8	170
<u> </u>	Methanol	5.8	NA(0.75mg/TCLP)
<u>X</u>	Methylene Chloride	0.089	30
<u> </u>	Methyl ethyl ketone	0.28	<u>38</u>
<u> </u>	Methyl isobutyl ketone	0.14	33
<u> </u>	Nitrobenzene	0.068	14
<u> </u>	2-Nitropropane	(WETOX or CHOXD) followed by CARBN or INCIN	INCIN
<u> </u>	Pyridine	0.014	16
<u>X</u>	Tetrachloroethylene	0.058	6.0
<u> </u>	Toluene	0.080	<u>10</u>
<u> </u>	1,1,1-Trichloroethane	0.054	6.0
<u> </u>	1,1,2-Trichloroethane	0.030	6.0
<u> </u>	1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	30
<u> </u>	Trichloroethylene	0.054	6.0
<u> </u>	Trichlorotrifluoromethane	0.02	30
<u>X</u>	Xylenes-mixed isomers	0.32	<u>30</u>

CERTIFICATION

Waste analysis data attached (circle) Yes/No

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine or imprisonment.

SIGNATURE

DATE

PRINT NAME
jc/12/94

TITLE

E. I. DuPont Experimental Station
Route 141
Wilmington, DE 19880-0249

1

ATTACHMENT I
E. I. DU PONT EXPERIMENTAL STATION
LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM

GENERATOR EPA LD. NUMBER PAD002311884 MANIFEST DOC. NUMBER 20096
GENERATOR NAME/ADDRESS DUPONT CO., INC. - MARSHALL LABS
3401 GRAYS FERRY AVE PHA., PA. 19146 STATE MANIFEST NO. DEA-33084
PLANT WASTE CODES MAR-020 MANIFEST PAGE NO./LETTER(S) 1/A

This form is submitted to the E. I. DuPont, Experimental Station in accordance with 40 CFR Part 268, which restricts the land disposal of certain hazardous wastes.. *INCIN (CMBST) is the specific technology at the Experimental Station

I. IDENTIFICATION OF THE WASTE

I have identified my waste and marked the appropriate box(es) below to indicate how my waste must be managed to conform to the land disposal restrictions as set forth in 40 CFR Part 268.

- A. Identify all EPA hazardous waste numbers that apply to this shipment. Several of the commonly shipped waste codes and their applicable subcategories (if applicable)/description are set forth below. Please check (X) the appropriate waste code(s) and indicate (X) whether the treatability group is wastewater or nonwastewater.

If additional waste codes or treatability groups are being shipped, list the waste code(s), regulatory subcategory (if applicable,) or description and indicate treatability group.

CHECK WASTE CODE	EPA HAZARDOUS WASTE CODE	DESCRIPTION OR REGULATORY SUBCATEGORY	TREATABILITY GROUP	
			WW	NWW
1 <input checked="" type="checkbox"/>	D001	Ignitable Characteristics Waste except for the 261.21(a)(1) high TOC subcategory, that are managed in non-CWA/ non-CWA equivalent/ non-Class I SDWA.	—	<input checked="" type="checkbox"/>
2 <input type="checkbox"/>	D001	High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1) - Greater than or equal to 10% total organic carbon.	NA	X
3 <input type="checkbox"/>	D002	Corrosive Characteristics Waste that are managed in non-CWA/non-CWA equivalent/non- Class I SDWA systems.	—	—
4 <input type="checkbox"/>	D003	Reactive Sulfides	—	—
5 <input type="checkbox"/>	D003	Explosives	—	—
6 <input type="checkbox"/>	D003	Other Reactives	—	—
7 <input type="checkbox"/>	D003	Water Reactives	NA	X
8 <input type="checkbox"/>	D003	Reactive Cyanides	—	—
9 <input type="checkbox"/>	D004	Arsenic	—	—
10 <input type="checkbox"/>	D005	Barium	—	—
11 <input type="checkbox"/>	D006	Cadmium	NA	X
12 <input type="checkbox"/>	D006	Cadmium containing batteries	NA	X
13 <input type="checkbox"/>	D007	Chromium	—	—
14 <input type="checkbox"/>	D008	Lead	NA	X
15 <input type="checkbox"/>	D008	Lead Acid Batteries	NA	X
16 <input type="checkbox"/>	D009	High Mercury - Organic	NA	X
17 <input type="checkbox"/>	D009	High Mercury - Inorganic	NA	X
18 <input type="checkbox"/>	D009	Low Mercury	NA	X
19 <input type="checkbox"/>	D009	All D009 Wastewaters	X	NA
20 <input type="checkbox"/>	D010	Selenium	—	—
21 <input type="checkbox"/>	D011	Silver	—	—
22 <input type="checkbox"/>	D012	Endrin	—	—
23 <input type="checkbox"/>	D013	Lindane	—	—

CHECK WASTE CODE	EPA HAZARDOUS WASTE CODE	DESCRIPTION OR REGULATORY SUBCATEGORY	TREATABILITY GROUP WW	NWW
24	D014	Methoxychlor	—	—
25	D015	Texaphene	—	—
26	D016	2,4-D (2,4-Dichlorophenoxyacetic acid)	—	—
27	D017	Silvex	—	—
28	D018	Benzene	—	—
29	D019	Carbon tetrachloride	—	—
30	D020	Chlorodane	—	—
31	D021	Chlorobenzene	—	—
32	D022	Chloroform	—	—
33	D023	o-Cresol	—	—
34	D024	m-Cresol	—	—
35	D025	p-Cresol	—	—
36	D026	Cresols (TOTAL)	—	—
37	D027	p-Dichlorobenzene	—	—
38	D028	1,2-Dichloroethane	—	—
39	D029	1,1-Dichloroethylene	—	—
40	D030	2,4-Dinitrobenzene	—	—
41	D031	Heptachlor	—	—
42	D031	Heptachlor epoxide	—	—
43	D032	Hexachlorobenzene	—	—
44	D033	Hexachlorobutadiene	—	—
45	D034	Hexachloroethane	—	—
46	D035	Methyl Ethyl Ketone	—	✓
47	D036	Nitobenzene	—	—
48	D037	Pentachlorophenol	—	—
49	D038	Pyridine	—	—
50	D039	Tetrachloroethylene	—	—
51	D040	Trichloroethylene	—	—
52	D041	2,4,5-Trichlorophenol	—	—
53	D042	2,4,6-Trichlorophenol	—	—
54	D043	Vinyl Chloride	—	—
55	F001	NONE	—	—
56	F002	NONE	—	—
57	F003	NONE	—	✓
58	F004	NONE	—	—
59	F005	NONE	—	✓
60	F003/F005	Waste contains only one or more of the following: carbon disulfide, cyclohexanone and/or methanol	—	—
61	F005	Contains only 2-Nitropropane	—	—
62	F005	Contains only 2-Ethoxyethanol	—	—
63	—	—	—	—
64	—	—	—	—
65	—	—	—	—
66	—	—	—	—
67	—	—	—	—
68	—	—	—	—
69	—	—	—	—
70	—	—	—	—
71	—	—	—	—

Note: If any one of the following are checked 3, 22 thru 53 you must complete and attach Appendix B notification (Universal Treatment Standards for D001, D002 and/or D012-D043 wastes)

If item 1 and/or item 2 are checked, CMBST's treatment code utilized at the Experimental Station to meet 40 CFR 268 requirements.

II. HOW MUST MY WASTE BE MANAGED?

(Check the line(s) that indicate the Land Ban status of the waste.)

3

☒ A. RESTRICTED WASTE REQUIRES TREATMENT

I am the initial generator of a hazardous waste OR is now a non-hazardous waste (e.g. deactivated D002 wastes) which must be treated to the applicable treatment standards or specified technologies set forth in the 40 CFR Part 268 Subpart D and all applicable prohibition set forth in 40 CFR 268.32 or R.C.R.A. Section 3004(d) prior to land disposal.

This requirement applies to all EPA hazardous waste numbers on the following attachments and/or appendices:

☒ Attachment I

☒ Attachment II

☒ Appendix B

☐ Appendix C

☐ Appendix D

This requirement also applies to the following California List constituents:
(Check all that apply)

Constituent	Concentration	LDR Treatment Standard
<input type="checkbox"/> Cyanides*	$\geq 1000 \text{ mg/l}$	Solidify or $<1000 \text{ mg/l}$
<input type="checkbox"/> Nickel*	$\geq 134 \text{ mg/l}$	solidify or $<134 \text{ mg/l}$
<input type="checkbox"/> Thallium*	$\geq 130 \text{ mg/l}$	solidify or $<130 \text{ mg/l}$
<input type="checkbox"/> PCBs*	$\geq 50 \text{ ppm}$	TSCA/RCRA Incineration
<input type="checkbox"/> Appendix III HOCs**	$\geq 1000 \text{ mg/l}$	RCRA Incineration

*In hazardous wastes with free liquids only

**Solid or liquid hazardous wastes with 40 CFR 268 Appendix III

Halogenated Organic Compounds.

Units are: solid HOCs-mg/kg; liquid HOCs-mg/l

☐ B. RESTRICTED WASTE SUBJECT TO A VARIANCE

The waste _____
(WASTE CODE) (SUBCATEGORY/DESCRIPTION) (WW OR NWW)
is subject to a case-by-case extension or a national capacity variance which expires
on _____ (date)

☐ C. RESTRICTED WASTE FOR F039 LEACHATE (40 CFR 268.35)

(Complete Appendix C Notification for F039 waste)

☐ D. RESTRICTED HAZARDOUS DEBRIS WASTES (40 CFR 268.45) TO BE TREATED PER THE ALTERNATIVE TREATMENT STANDARDS OF 40 CFR 268.45, TABLE I

(Complete Appendix D Notification for debris)

CERTIFICATIONS

(check where applicable)

Waste analysis data attached (circle) Yes/No

A ☐ I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing of through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

B ☐ I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristics. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

C ☐ I certify under penalty of law that the debris has been treated in accordance with the requirements of 40 CFR 268.45. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

John G. Weldon (sign)

JOHN G. WELDON (print)

1-15-96 (date)

ENV. COORDINATOR (title)

APPENDIX B

B-1

Manifest Doc. No. 20096

Manifest Page No./LineLetter 1/A

UNIVERSAL TREATMENT STANDARDS FOR D001*, D002* and/or D012-D043* WASTES

(Instruction: Enter the EPA Hazardous waste code, subcategory and treatability group below and mark the constituents reasonably expected to be present in the waste as generated above the wastewater or nonwastewater concentrations shown)

___ Deactivated (non-hazardous) treatment residue(s) of D001, D002 and/or D012-D043 wastes.

Constituents of Concern	Total Composition		Constituents of Concern	Total Composition	
	WW (mg/l)	Non-WW (mg/kg)		WW (mg/l)	Non-WW (mg/kg)
___ "Reasonably expected"***to contain no constituents above the appropriate wastewater (WW) or nonwastewater (Non-WW) concentration levels shown below. (If this block is marked, Appendix B is complete. Do not mark any constituents below.)					
___ Acenaphthylene	0.059	3.4	___ 2-Chloroethyl vinyl ether	0.062	NA
___ Acenaphthene	0.059	3.4	___ Chloromethane (Methyl chloride)	0.19	30
___ Acetone	0.28	160.0	___ 2-Chloronaphthalene	0.055	5.6
___ Acetonitrile	5.	1.8	___ 2-Chlorophenol	0.044	5.7
___ Acetophenone	0.010	9.7	___ 3-Chloropropylene	0.036	30.0
___ 2-Acetylaminofluorene	0.059	140.0	___ Chrysene	0.059	3.4
___ Acrolein	0.290	NA	___ o-Cresol	0.11	5.6
___ Acrylamide	19.0	23.0	___ m-Cresol	0.77	5.6
___ Acrylonitrile	0.24	84.0	___ p-Cresol	0.77	5.6
___ Aldrin	0.021	0.066	___ Cyclohexanone	0.36	0.75mg/l [TCLP]
___ 4-Aminobiphenyl	0.13	NA	___ 1,2-Dibromo-3-chloropropane	0.11	15.0
___ Aniline	0.81	14.0	___ Ethylene dibromide	0.028	15.0
___ Anthracene	0.059	3.4	___ (1,2-Dibromoethane)		
___ Aramite	0.36	NA	___ Dibromomethane	0.11	15.0
___ alpha-BHC	0.00014	0.066	___ 2,4-D	0.72	10.0
___ beta-BHC	0.00014	0.066	___ (Dichlorophenoxyacetic Acid)		
___ delta-BHC	0.023	0.066	___ o,p'-DDD	0.023	0.087
___ gamma-BHC	0.0017	0.066	___ p,p'-DDD	0.023	0.087
___ Benzene	0.14	10.0	___ o,p'-DDE	0.031	0.087
___ Benz(a)anthracene	0.059	3.4	___ p,p'-DDE	0.031	0.087
___ Benzal chloride	0.055	6.0	___ o,p'-DDT	0.0039	0.087
___ Benzo(b)-Fluoranthene	0.11	6.8	___ p,p'-DDT	0.0039	0.087
___ Benzo(k)-fluoranthene	0.11	6.8	___ Dibenz(a,h) anthracene	0.055	8.2
___ Benzo(g,h,i)-perylene	0.0055	1.8	___ Dibenzo(a,e) pyrene	0.061	NA
___ Benzo(a)Pyrene	0.061	3.4	___ m-Dichlorobenzene	0.036	6.0
___ Bromodichloromethane	0.35	15.0	___ o-Dichlorobenzene	0.088	6.0
___ Methyl bromide (Bromomethane)	0.11	15.0	___ p-Dichlorobenzene	0.090	6.0
___ 4-Bromophenyl phenyl ether	0.055	15.0	___ Dichlorodifluoromethane	0.23	7.2
___ n-Butyl Alcohol	5.6	2.6	___ 1,1-Dichloroethane	0.059	6.0
___ Butyl benzyl phthalate	0.017	28.0	___ 1,2-Dichloroethane	0.21	6.0
___ 2-sec-Butyl-4,6-dinitrophenol	0.066	2.5	___ 1,1-Dichloroethylene	0.025	6.0
___ Carbon disulfide	3.8	4.8 mg/l [TCLP]	___ trans-1,2-Dichloroethylene	0.054	30.0
___ Carbon Tetrachloride	0.057	6.0	___ 2,4-Dichlorophenol	0.044	14.0
___ Chlordane	0.0033	0.26	___ 2,6-Dichlorophenol	0.044	14.0
___ (alpha & gamma isomers)			___ 1,2-Dichloropropane	0.85	18.0
___ p-Chloroaniline	0.46	16.0	___ cis-1,3-Dichloropropene	0.036	18.0
___ Chlorobenzene	0.057	6.0	___ trans-1,3-Dichloropropene	0.036	18.0
___ Chlorobenzilate	0.10	NA	___ Dieldrin	0.017	0.13
___ 2-Chloro-1,3-butadiene	0.057	NA	___ 2,4 Dimethyl Phenol	0.036	14
___ Chlorodibromomethane	0.57	15.0	___ Diethyl Phthalate	0.20	28.0
___ bis(2-Chloroethoxy) methane	0.036	7.2	___ Dimethyl Phthalate	0.047	28.0
___ bis(2-Chloroethyl) ether	0.033	6.0	___ Di-n-butyl phthalate	0.057	28.0
___ Chloroform	0.046	6.0	___ 1,4-Dinitrobenzene	0.32	2.3
___ bis(2-Chloroisopropyl) ether	0.055	7.2	___ 4,6-Dinitro-o-cresol	0.28	160.0
___ Chloroethane	0.27	6.0	___ 2,4-Dinitrophenol	0.12	160.0
___ 2,4-Dinitrotoluene	0.32	140.0	___ p-Chloro-m-cresol	0.018	14.0
___ 2,6-Dinitrotoluene	0.55	28.0	___ Nitrobenzene	0.068	14.0
___ Di-n-octyl phthalate	0.017	28.0	___ 5-Nitro-o-toluidine	0.32	28.0
___ p-Dimethylaminoazobenzene	0.13	NA	___ o-Nitrophenol	0.028	13.0
___ Di-n-propylnitrosamine	0.40	14.0	___ p-Nitrophenol	0.12	29.0
___ 1,4-Dioxane	NA	170.0	___ N-Nitrosodiethylamine	0.40	28.0
			___ N-Nitrosodimethylamine	0.40	2.3

APPENDIX B (Cont'd)

Manifest Doc. No. 20096Manifest Page No./LineLetter 1/A

UNIVERSAL TREATMENT STANDARDS FOR D001*, D002* and/or D012-D043* WASTES (Cont'd)

Constituents of Concern	Total Composition		Constituents of Concern	Total Composition	
	WW (mg/l)	Non-WW (mg/kg)		WW (mg/l)	Non-WW (mg/kg)
___ Diphenylamine	0.92	13.0	___ N-Nitroso-di-n-butylamine	0.40	17.0
___ Diphenyl nitrosamine	0.92	13.0	___ N-Nitrosomethylethylamine	0.40	2.3
___ 1,2-Diphenylhydrazine	0.087	NA	___ N-Nitrosomorpholine	0.40	2.3
___ Disulfoton	0.017	6.2	___ N-Nitrosopiperidine	0.013	35.0
___ 1,2 Diphenylhydrazine	0.087	NA	___ Disulfoton	0.017	6.2
___ Endosulfan I	0.023	0.066	___ N-Nitrosopyrrolidine	0.013	35.0
___ Endosulfan II	0.029	0.13	___ Parathion	0.014	4.6
___ Endosulfan sulfate	0.029	0.13	___ Total PCB's (sum of all PCB isomers)	0.10	10.0
___ Endrin	0.0028	0.13	___ Pentachlorobenzene	0.055	10.0
___ Endrin aldehyde	0.025	0.13	___ PcCDDs (Pentachlorodibenzofurans)	0.000063	0.001
___ Ethyl acetate	0.34	33.0	___ PcCDFs	0.000035	0.001
___ Ethyl cyanide (Propanenitrile)	0.24	360.0	___ (Pentachlorodibenzo-p-dioxins)		
___ Ethyl benzene	0.057	10.0	___ Pentachloroethane	0.055	6.0
___ Ethyl ether	0.12	160.0	___ Pentachloronitrobenzene	0.055	4.8
___ bis(2-Ethylhexyl) phthalate	0.28	28.0	___ Pentachlorophenol	0.089	7.4
___ Ethyl methacrylate	0.14	160.0	___ Phenacetin	0.081	16.0
___ Ethylene oxide	0.12	NA	___ Phenanthrene	0.059	5.6
___ Famphur	0.017	15.0	___ Phenol	0.039	6.2
___ Fluoranthene	0.068	3.4	___ Phorate	0.021	4.6
___ Fluorene	0.059	3.4	___ Phthalic acid	0.055	28.0
___ Heptachlor	0.0012	0.066	___ Phthalic anhydride	0.055	28.0
___ Heptachlor epoxide	0.016	0.066	___ Pronamide	0.093	1.5
___ Hexachlorobenzene	0.055	10.0	___ Pyrene	0.067	8.2
___ Hexachlorobutadiene	0.055	5.6	___ Pyridine	0.014	16.0
___ Hexachlorocyclopentadiene	0.057	2.4	___ Safrole	0.081	22.0
___ HxCDDs	0.000063	0.001	___ Silvex (2,4,5-TP)	0.72	7.9
___ (Hexachlorodibenzo-p-dioxins)			___ 2,4,5-T	0.72	7.9
___ HxCDFs (Hexachlorodibenzofurans)	0.000063	0.001	___ 1,2,4,5-Tetrachlorobenzene	0.055	14.0
___ Hexachloroethane	0.055	30.0	___ TCDDs (Tetrachlorodibenzo-furans)	0.000063	0.001
___ Hexachloropropylene	0.035	30.0	___ TCDFs	0.000063	0.001
___ Indeno (1,2,3-c,d) pyrene	0.0055	3.4	___ (Tetrachlorodibenzo-p-dioxins)		
___ Iodomethane	0.19	65.0	___ 1,1,1,2-Tetrachloroethane	0.057	6.0
___ Isobutanol	5.6	170.0	___ 1,1,2,2-Tetrachloroethane	0.057	6.0
___ Isodrin	0.021	0.066	___ Tetrachloroethylene	0.056	6.0
___ Isosafrole	0.081	2.6	___ 2,3,4,6-Tetrachlorophenol	0.030	7.4
___ Kepone	0.0011	0.13	___ Toluene	0.080	10.0
___ Methacrylonitrile	0.24	84.0	___ Toxaphene	0.0095	2.6
___ Methanol	5.6	0.75 mg/l	___ Bromoform (Tribromomethane	0.63	15.0
___ Methapyrilene	0.081	[TCLP]	___ 1,2,4-Trichlorobenzene	0.055	19.0
___ Methoxychlor	0.25	1.5	___ 1,1,1-Trichloroethane	0.054	6.0
___ 3-Methylchloranthrene	0.0055	0.18	___ 1,1,2-Trichloroethane	0.054	6.0
___ 4,4-Methylene-bis(2-chloroaniline)	0.50	15.0	___ Trichloroethylene	0.054	6.0
___ Methylene Chloride	0.089	30.0	___ Trichloromonofluoromethane	0.020	30.0
___ Methyl ethyl ketone	0.28	36.0	___ 2,4,5-Trichlorophenol	0.18	7.4
___ Methyl isobutyl ketone	0.14	33.0	___ 2,4,6-Trichlorophenol	0.035	7.4
___ Methyl methacrylate	0.14	160.0	___ 1,2,3-Trichloropropane	0.85	30.0
___ Methyl methansulfonate	0.018	NA	___ 1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	30.0
___ Methyl parathion	0.014	4.6	___ tris(2,3-dibromopropyl) phosphate	0.11	0.10
___ 2-Naphthylamine	0.52	NA	___ Vinyl chloride	0.27	6.0
___ o-Nitroaniline	0.27	14.0	___ Xylene(s) (sum of mixed isomers)	0.32	30.0
___ Antimony	1.9	2.1 mg/l [TCLP]	___ p-Nitroaniline	0.028	28.0
___ Arsenic	1.4	5.0 mg/l [TCLP]			
___ Barium	1.2	7.6 mg/l [TCLP]			
___ Beryllium	0.82	0.014 mg/l [TCLP]			
___ Cadmium	0.69	0.19 mg/l [TCLP]			
___ Chromium (Total)	2.77	0.86 mg/l [TCLP]			
___ Cyanidies (Total)	1.2	590			
___ Cyanidies (Amendable)	0.86	30			
___ Fluoride	35	NA			

APPENDIX B (Cont'd)

Manifest Doc. No. 20096Manifest Page No./LineLetter 1/AUNIVERSAL TREATMENT STANDARDS FOR D001*, D002* and/or D012-D043* WASTES (Cont'd)

Constituents of Concern	Total Composition		Constituents of Concern	Total Composition	
	WW (mg/l)	Non-WW (mg/kg)		WW (mg/l)	Non-WW (mg/kg)
___ Lead	0.69	0.37 mg/l [TCLP]			
___ Mercury (Nonwastewater from Retort)	NA	0.20 mg/l [TCLP]			
___ Mercury (All others)	0.15	0.025 mg/l [TCLP]			
___ Nickel	3.98	5.0 mg/l [TCLP]			
___ Selenium	0.82	0.16 mg/l [TCLP]			
___ Silver	0.43	0.30 mg/l [TCLP]			
___ Sulfide	14.0	NA			
___ Thallium	1.4	0.078 mg/l [TCLP]			
___ Vanadium	4.3	0.23 mg/l [TCLP]			

* Or residues from treating D001, D002 and/or D012-D043 wastes.

** "Reasonably expected to be present" -In the Preamble to the Final LDR Phase II Rule the EPA clarified that this term does not require that the generator analyze for the presence of all hazardous constituents in the Universal Treatment Standards (40 CFR 268.48). Generators may base the determination on their knowledge of the raw materials that they use, the process that they operate, the potential reaction products of the process or the results of a one-time analysis for the entire list of Universal Treatment Standards constituents.



**MICHIGAN DEPARTMENT
OF NATURAL RESOURCES**

DO NOT WRITE IN THIS SPACE

ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Act 64 PA
1979, as amended and Act 136, PA
1969

Failure to file is punishable under
section 299 548 MCL or Section 10 of
Act 136, PA 1969

Please print or type

Form Approved. OMB No. 2050-0039 Expires 6-30-88

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. PA 0002311884		Manifest Document No. 96000		2 Page 1 of 1		Information in the shaded areas is not required by Federal law							
3 Generator's Name and Mailing Address E. I. DuPont de Nemours - ATTN: JOHN WELDON 3401 Grays Ferry Ave - Philadelphia, PA 19146						A. State Manifest Document Number MI 4330956									
4 Generator's Phone (215-339-6629)						B. State Generator's ID									
5 Transporter 1 Company Name NORTHU, Inc.			6 US EPA ID Number MI D 021087275			C. State Transporter's ID									
7 Transporter 2 Company Name			8 US EPA ID Number			D. Transporter's Phone 313-624-									
9 Designated Facility Name and Site Address NORTHU Resources 611 Hilger Detroit, MI 48214			10 US EPA ID Number MI D 985619824			E. State Transporter's ID									
						F. Transporter's Phone									
						G. State Facility's ID									
						H. Facility's Phone 313-624-									
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12 Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
a. X RO, Waste Flammable Solid, N.O.S., 4.1 UN1325, PGII (Toluene, Xylene) (F003, F005, D001)						001 C/P		01171		P		101			
b.															
c.															
d.															
J. Additional Descriptions for Materials Listed Above L. NORTHU 1-31216 (04-2-1981) ALSO CONTAINS: P005, D001 RELEASE 081 NEEDS 46						K. Handling Codes for Wastes Listed Above 313/3016		a/		b/		c/		d/	
15. Special Handling Instructions and Additional Information IN CASE OF AN EMERGENCY CONTACT CHEMTREC @ (800) 424-9300 B/L D0CF09819															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name JOHN WELDON						Signature <i>John Weldon</i>						Date Month Day Year 10/21/1996			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>R. Howard</i>						Signature <i>R. Howard</i>						Date Month Day Year 10/21/96			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name						Signature						Date Month Day Year			
19. Discrepancy Indication Space															
20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name <i>Sam Saxe</i>															
Signature <i>Sam Saxe</i>						Date Month Day Year 10/21/1996									

Petro-Chem Processing Group
Fuels Blending Services
421 Lyncaste, Detroit, MI 48214
MID 980615298:

Solvent Distillers Group
Solvent Reclamation
421 Lyncaste, Detroit, MI 48214
MID 980684032:

Nortru Resources LP
Rags/Drum Reclamation
611 Hillger, Detroit, MI 48214
MID 985619824:

Chemical Reclamation Services
Solvent Reclamation Services
405 Powell St., Avalon, TX 76623
TXD 046844700:



HAZARDOUS WASTE RESTRICTED FROM LAND DISPOSAL NOTICE

On Manifest number MI 4330956 line item 11 A (A,B,C, or D) the waste bearing the EPA Hazardous waste number(s) F003, F005, D001 is subject to the land disposal restriction of 40 CFR Part 268. In accordance with 40 CFR 268.7, this generator is providing notice that the waste does not meet the treatment standards specified in Part 268 Subpart D or does not meet the prohibitions specified in 268.32 or RCRA section 3004 (d). The treatment standards for this restricted waste is/are as follows:

Hazardous Waste Codes	Constituents of Concern	Non-Wastewater Total Composition mg/kg	Constituents of Concern	Non-Wastewater Total Composition mg/kg
<input type="checkbox"/> F001	Acetone	160	Methyl ethyl ketone	36
<input type="checkbox"/> F002	n-Butyl alcohol	2.5	Methyl isobutyl ketone	33
<input checked="" type="checkbox"/> F003	Carbon disulfide	4.31 (TCLP)	Nitrobenzene	14
<input type="checkbox"/> F004	Carbon tetrachloride	6.0	Pyridine	16
<input checked="" type="checkbox"/> F005	Chlorobenzene	6.0	Tetrachloroethylene	5.0
	o,m,p Cresols	5.6 (ea)	Toluene	10
	Cyclohexanone	0.72 (TCLP)	1,1,1 Trichloroethane	6.0
	1,2 Dichlorobenzene	6.0	1,1,2-Trichloro-1,2,2-	
	Ethyl acetate	33	Trifluoroethane	30
	Ethylbenzene	10	Trichloroethylene	6.0
	Ethyl ether	160	Xylenes	30
	Isobutanol	170	2-Ethoxyethanol	INCIN
	Methanol	0.75 (TCLP)	2-Nitropropane	INCIN
	Methylene chloride	30		

Waste Code	Treatment Sub category	Non-waste water	Technology Based Standards (268.42)
<input type="checkbox"/> D001	Ignitable liquids based on 40 CFR 261.21, except for the 261.21(a)(1) High TOC Sub category, managed in Non-CWA/Non CWA equivalent, non-Class 1 SDWA Systems	<input type="checkbox"/>	DEACT & meet UTS, or RORGS, or CMBST
<input type="checkbox"/> D001	Ignitable characteristic wastes, except for the 261.21(a)(1) High TOC Subcategory, that are managed in CWA/CWA-equivalent/Class 1 SDWA systems	<input type="checkbox"/>	DEACT
<input checked="" type="checkbox"/> D001	Ignitable liquids based on 40 CFR 261.21(a)(1) - High TOC Ignitable Liquid Subcategory - greater than or equal to 10% TOC	<input checked="" type="checkbox"/>	RORGS or CMBST

Waste Code	Non-waste water	Treatment Subcategory (if applicable)
D004 Arsenic	<input type="checkbox"/>	
D005 Barium	<input type="checkbox"/>	
D006 Cadmium	<input type="checkbox"/>	
D007 Chromium (Total)	<input type="checkbox"/>	
D008 Lead	<input type="checkbox"/>	
D009 Mercury	<input type="checkbox"/>	
D010 Selenium	<input type="checkbox"/>	
D011 Silver	<input type="checkbox"/>	
D012 Endrin	<input type="checkbox"/>	
D013 Lindane	<input type="checkbox"/>	
D014 Methoxychlor	<input type="checkbox"/>	
D015 Toxaphene	<input type="checkbox"/>	

NORTRU INC. 515 LYNCASTE STREET, DETROIT, MICHIGAN 48214

D016 2,4-D (2,4-Dichlorophenoxyacetic acid)	<input type="checkbox"/>	_____
D017 Silver	<input type="checkbox"/>	_____
D018 Benzene	<input type="checkbox"/>	_____
D019 Carbon Tetrachloride	<input type="checkbox"/>	_____
D020 Chlordane	<input type="checkbox"/>	_____
D021 Chlorobenzene	<input type="checkbox"/>	_____
D022 Chloroform	<input type="checkbox"/>	_____
D023 o-Cresol	<input type="checkbox"/>	_____
D024 m-Cresol	<input type="checkbox"/>	_____
D025 p-Cresol	<input type="checkbox"/>	_____
D026 Total Cresols	<input type="checkbox"/>	_____
D027 p-Dichlorobenzene	<input type="checkbox"/>	_____
D028 1,2-Dichloroethane	<input type="checkbox"/>	_____
D029 1,1-Dichloroethylene	<input type="checkbox"/>	_____
D030 2,4-Dinitrotoluene	<input type="checkbox"/>	_____
D031 Heptachlor	<input type="checkbox"/>	_____
D032 Hexachlorobenzene	<input type="checkbox"/>	_____
D033 Hexachlorobutadiene	<input type="checkbox"/>	_____
D034 Hexachloroethane	<input type="checkbox"/>	_____
D035 Methyl Ethyl Ketone	<input type="checkbox"/>	_____
D036 Nitrobenzene	<input type="checkbox"/>	_____
D037 Pentachlorophenol	<input type="checkbox"/>	_____
D038 Pyridine	<input type="checkbox"/>	_____
D039 Tetrachloroethylene	<input type="checkbox"/>	_____
D040 Trichloroethylene	<input type="checkbox"/>	_____
D041 2,4,5-Trichlorophenol	<input type="checkbox"/>	_____
D042 2,4,6-Trichlorophenol	<input type="checkbox"/>	_____
D043 Vinyl Chloride	<input type="checkbox"/>	_____

Note: For D012-D043, check off those underlying hazardous constituents from Universal Treatment Standard list located on Addendum

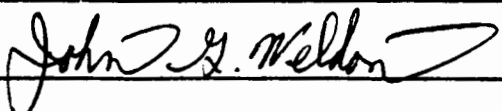
List Additional Codes below:

Waste Code	Treatment Sub category	Non-waste water	Waste Code	Treatment Sub category	Non-waste water
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>

*The above listed waste can be land disposed without further treatment as stated in the 40 CFR 268.7 (a)(2).
 XXXXXX *The above listed waste is subject to an exemption from a prohibition as stated in the 40 CFR 268.7 (a)(3).

Notification:

Generator Firm Name: E.I. DUPONT DE NEMOURS & CO. - MARSHALL LABS

Generator Signature: 

Printed Name & Title: JOHN G. WELDON - ENV. COORDINATOR

EPA ID No: PAD 002 311 834 Date: 2-2-96

NORTRU INC. 515 LYCASTE STREET, DETROIT, MICHIGAN 48214

QUARTERLY HAZARDOUS WASTE REPORT - GENERAL INFORMATION

I. This report is for the quarter ending (check one):

- ☐ March 31
☐ June 30
☐ September 30
☒ December 31

19 95

II. ☐ Check this block, if there is nothing to report this Quarter.

III. Your EPA I.D. Number

PA D 002311834

IV. Name of Installation

MARSHALL LABORATORY

V. Mailing Address

3401 GRAYS FERRY AVE

PHILADELPHIA, PA 19146

VI. Location Address

SAME

☒ City

☐ Borough

☐ Township

County

VII. If located within PA,

PHILA.

(Name of Municipality)

VIII. Contact Person

JOHN G. WELDON

Phone No. 215 - 339 - 6629

(Area Code)

IX. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

JOHN G. WELDON

A. Print or Type Name

John G. Weldon

B. Signature of Authorized Representative

1-4-96

C. Date Signed

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Complete this form before completing Forms ER-WM-55A or ER-WM-55B

INSTRUCTIONS FOR COMPLETING THE QUARTERLY HAZARDOUS WASTE REPORT - GENERAL INFORMATION
(Form ER-WM-55)

Pennsylvania Generators who make manifested shipments of hazardous waste off-site, and out-of-state generators who ship hazardous waste to Pennsylvania for management must also complete form ER-WM-55A. Pennsylvania Facilities who receive manifested shipments of hazardous waste from off-site must also complete form ER-WM-55B.

Section I - Quarterly Reports shall be submitted to the Department on or before the 20th day of April, July, October and January for the 3 months ending the last day of March, June, September and December.

Section II - If you check this block, please do not complete any other forms.

Section III - Enter your EPA ID Number.

Section IV and V - Self explanatory.

Section VI - If the location address is the same as the mailing address enter "same".

Section VII - Self explanatory.

Section VIII - The name of the person who can answer questions about this report, and their phone number.

Section IX - An Authorized Representative is the individual responsible for the overall operation of a facility, or an operational unit of the facility, or his assistant.

Forms submitted to the Department must bear an original (not photocopied) signature.

Enter the total number of pages of the report in the space provided at the lower right corner, e.g., Page 1 of 12. This is important to alert anyone to pages missing from your report and for reference purposes.

Send completed forms to:

PA Department of Environmental Resources
Bureau of Waste Management
Division of Reporting and Fee Collection
P.O. Box 8550
Harrisburg, PA 17105-8550
717-783-9258

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PA00002311894
 II. TSD Facility's EPA I.D. No. NJ00002385730
 TSD Facility's Name DUPONT CO. CHAMBERS WORKS
 Address RT. 130 DEEPWATER N.J. 08023

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.
1	US DOT Description - <u>RQ WASTE COMBUSTIBLE LIQUID</u> <u>N.O.S. NA1993 III</u> State Manifest Document Number - <u>NJA 2064862</u>	<u>F003</u> <u>F005</u>	<u>8,500</u>	<u>AHS227</u>
2	US DOT Description - <u>RQ WASTE COMBUSTIBLE LIQUID</u> <u>N.O.S. NA1993 III</u> State Manifest Document Number - <u>NJA 2064863</u>	<u>F003</u> <u>F005</u> <u>D035</u>	<u>10,350</u>	<u>AHS227</u>
3	US DOT Description - <u>RQ WASTE COMBUSTIBLE LIQUID</u> <u>N.O.S. NA1993 III</u> State Manifest Document Number - <u>NJA 2064864</u>	<u>F003</u> <u>F005</u> <u>D035</u>	<u>8,550</u>	<u>AHS227</u>
4	US DOT Description - <u>RQ WASTE COMBUSTIBLE LIQUID</u> <u>N.O.S. NA1993 III</u> State Manifest Document Number - <u>NJA 1906575</u>	<u>F003</u> <u>F005</u> <u>D035</u>	<u>12,600</u>	<u>AHS227</u>
5	US DOT Description - State Manifest Document Number -			<u>AH</u>
6	US DOT Description - State Manifest Document Number -			<u>AH</u>
7	US DOT Description - State Manifest Document Number -			<u>AH</u>
8	US DOT Description - State Manifest Document Number -			<u>AH</u>
9	US DOT Description - State Manifest Document Number -			<u>AH</u>
10	US DOT Description - State Manifest Document Number -			<u>AH</u>

Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PAB1234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest.)

If a waste is not identified in Chapter 261, it is not a hazardous waste and should not be reported. Do not enter US DOT UN or NA numbers.

- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
- D. For each shipment enter the Pennsylvania Hazardous Waste Transporter License Number issued by the Department. (Item C of Pennsylvania Manifest.) Do not enter vehicle license plate numbers or license numbers issued by other states. All hazardous waste transporters doing business in Pennsylvania must have a Pennsylvania Hazardous Waste Transporter License. Contact your transporter if you do not know this license number.

- E. This space may be used to explain or clarify any information entered on this form.

Enter the page number of each sheet in the lower right corner as well as the total number of pages in the report, e.g., Page 2 of 24. This is important to alert anyone to pages missing from your report and for reference purposes.

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PAD0002311884
 II. TSD Facility's EPA I.D. No. DEP0003930809
 TSD Facility's Name DUPONT CO. EXPERIMENTAL STATION
 Address RT. 141 WILMINGTON DE. 19880

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.	
				Put in Box	PA Hazardous Waste Transporter License No.
1	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3, UN1993, II State Manifest Document Number - DE-A-33093	0001 F003 F005 D035	6,400	K X T H	AHS222
2	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3, UN1993, II State Manifest Document Number - DE-A-33094	0001 F003 F005 D035	3,600	K X T H	AHS222
3	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3, UN1993, II State Manifest Document Number - DE-A-33097	0001 F003 F005 D035	5,200	K X T H	AHS222
4	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3, UN1993, II State Manifest Document Number - DE-A-28983	0001 F003 F005 D035	10,000	K X T H	AHS222
5	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3, UN1993, II State Manifest Document Number - DE-A-32989	0001 F003 F005 D035	11,600	K X T H	AHS222
6	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3, UN1993 PGII State Manifest Document Number - DE-A-32987	0001 F003 F005 D035	5,600	K X T H	AHS222
7	US DOT Description - WASTE FLAMMABLE SOLIDS N.O.S. 4.1, UN1325 PGIII State Manifest Document Number - DE-A-32987	0001	360	K X T H	AHS222
8	US DOT Description - State Manifest Document Number -			K P T H	AH
9	US DOT Description - State Manifest Document Number -			K P T H	AH
10	US DOT Description - State Manifest Document Number -			K P T H	AH

Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PAB1234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest).

If a waste is not identified in Chapter 261, it is not a hazardous waste and should not be reported. Do not enter US DOT UN or NA numbers.

- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
- D. For each shipment enter the Pennsylvania Hazardous Waste Transporter License Number issued by the Department. (Item C of Pennsylvania Manifest.) Do not enter vehicle license plate numbers or license numbers issued by other states. All hazardous waste transporters doing business in Pennsylvania must have a Pennsylvania Hazardous Waste Transporter License. Contact your transporter if you do not know this license number.

- E. This space may be used to explain or clarify any information entered on this form.

Enter the page number of each sheet in the lower right corner as well as the total number of pages in the report, e.g., Page 2 of 24. This is important to alert anyone to pages missing from your report and for reference purposes.

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PA0002311884
 II. TSD Facility's EPA I.D. No. NTD053288239
 TSD Facility's Name ROLLINS ENVIRONMENTAL SERVICES INC.
 Address RT 322 + E 295 BRIDGEPORT, N.J. 08014

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.
1	US DOT Description - <u>WASTE FLAMMABLE LIQUIDS</u> <u>N.O.S. 3 UN1993 PG II</u> State Manifest Document Number - <u>NJA 2283006</u>	<u>D001</u>	<u>35</u>	<u>SHS227</u>
2	US DOT Description - <u>WASTE FLAMMABLE LIQUIDS</u> <u>N.O.S. 3 UN1993 PG II</u> State Manifest Document Number - <u>NJA 2283006</u>	<u>D001</u>	<u>19</u>	<u>AHS227</u>
3	US DOT Description - <u>WASTE PYRIDINE, 3</u> <u>UN1282 PG II</u> State Manifest Document Number - <u>NJA 2283006</u>	<u>F005</u> <u>D038</u> <u>D001</u>	<u>111</u>	<u>AHS227</u>
4	US DOT Description - State Manifest Document Number -			<u>AH</u>
5	US DOT Description - State Manifest Document Number -			<u>AH</u>
6	US DOT Description - State Manifest Document Number -			<u>AH</u>
7	US DOT Description - State Manifest Document Number -			<u>AH</u>
8	US DOT Description - State Manifest Document Number -			<u>AH</u>
9	US DOT Description - State Manifest Document Number -			<u>AH</u>
10	US DOT Description - State Manifest Document Number -			<u>AH</u>

Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

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Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PA81234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest.)

If a waste is not identified in Chapter 261, it is not a hazardous waste and should not be reported. Do not enter US DOT UN or NA numbers.

- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
- D. For each shipment enter the Pennsylvania Hazardous Waste Transporter License Number issued by the Department. (Item C of Pennsylvania Manifest.) Do not enter vehicle license plate numbers or license numbers issued by other states. All hazardous waste transporters doing business in Pennsylvania must have a Pennsylvania Hazardous Waste Transporter License. Contact your transporter if you do not know this license number.
- E. This space may be used to explain or clarify any information entered on this form.

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GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PAD0002311884
 II. TSD Facility's EPA I.D. No. OH0000816629
 TSD Facility's Name SPRING GROVE RESOURCE RECOVERY INC.
 Address 4879 SPRING GROVE AVE CINCINNATI OH 45232

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	Put in Box	D. PA Hazardous Waste Transporter License No.
1	US DOT Description - WASTE FLAMMABLE LIQUIDS 3 UN1993 PG II (MINERAL SPIRITS) State Manifest Document Number - PAE 5020142	0001	900	K X T M	AH0312
2	US DOT Description - WASTE FLAMMABLE LIQUIDS 3 UN1993 PG II (METHYLETHYL KETONE) State Manifest Document Number - PAE 5020142	0001	450	K X T M	AH0312
3	US DOT Description - R & WASTE CORROSIVE LIQUIDS FLAMMABLE N.O.S. 3 UN2920 PG II State Manifest Document Number - PAE 5020142	0001 0002	450	K X T M	AH0312
4	US DOT Description - WASTE FLAMMABLE LIQUIDS N.O.S. 3 UN1993 PG II State Manifest Document Number - PAE 5021030	0001	1,800	K X T M	AH0312
5	US DOT Description - WASTE DICHLOROMETHANE, 6.1 UN1593 PG II State Manifest Document Number - PAE 5021030	U030	900	K X T M	AH0312
6	US DOT Description - WASTE CORROSIVE LIQUIDS FLAMMABLE N.O.S. 3 UN2920 PG II State Manifest Document Number - PAE 5021030	0001 0002	450	K X T M	AH0312
7	US DOT Description - WASTE FLAMMABLE LIQUIDS N.O.S. 3 UN1993 PG II State Manifest Document Number - PAE 5021030	0001	900	K X T M	AH0312
8	US DOT Description - WASTE STYRENE MONOMER, INHIBITED 3 UN2055 PG II State Manifest Document Number - PAE 5020131	0001	450	K X T M	AH0312
9	US DOT Description - WASTE FLAMMABLE LIQUIDS, 3, UN1993 PG II (2-PYROLIDONE) State Manifest Document Number - PAE 5020131	0001	450	K X T M	AH0312
10	US DOT Description - WASTE FLAMMABLE LIQUIDS N.O.S. 3 UN1993 PG II (DIMETHYL ACETAMIDE) State Manifest Document Number - PAE 5020131	0001	1,350	K X T M	AH0312

E. Comments: (3) ISOPROPANOL SULFONIC ACID (6) ACETIC ACID
 (14) BUTANOL AND FORMALDEHYDE (17) ETHYLENE GLYCOL MONO BUTYL ETHER
 AND ETHANOL

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PAB1234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest).

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GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. P000002311884
 II. TSD Facility's EPA I.D. No. 0410000816629
 TSD Facility's Name SPRING GROVE RESOURCE RECOVERY INC.
 Address 4879 SPRING GROVE AVE, CINCINNATI OH 45232

III. WASTE SHIPPED OFF-SITE				
LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.
1	US DOT Description - <u>WASTE !!!-TRICHLOROETHANE, 6.1 UN 2831, PG III</u> State Manifest Document Number - <u>PAE 5020131</u>	<u>U227</u>	<u>900</u>	<u>KAH0312</u>
2	US DOT Description - <u>WASTE FLAMMABLE LIQUIDS (HYDROXY PROPYL METHACRYLATE) 3 UN1993 PG II</u> State Manifest Document Number - <u>PAE 5020820</u>	<u>0001</u>	<u>900</u>	<u>KAH0312</u>
3	US DOT Description - State Manifest Document Number -			<u>KAH</u>
4	US DOT Description - State Manifest Document Number -			<u>KAH</u>
5	US DOT Description - State Manifest Document Number -			<u>KAH</u>
6	US DOT Description - State Manifest Document Number -			<u>KAH</u>
7	US DOT Description - State Manifest Document Number -			<u>KAH</u>
8	US DOT Description - State Manifest Document Number -			<u>KAH</u>
9	US DOT Description - State Manifest Document Number -			<u>KAH</u>
10	US DOT Description - State Manifest Document Number -			<u>KAH</u>

E. Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PAB1234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest).

If a waste is not identified in Chapter 261, it is not a hazardous waste and should not be reported. Do not enter US DOT UN or NA numbers.

- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
- D. For each shipment enter the Pennsylvania Hazardous Waste Transporter License Number issued by the Department. (Item C of Pennsylvania Manifest.) Do not enter vehicle license plate numbers or license numbers issued by other states. All hazardous waste transporters doing business in Pennsylvania must have a Pennsylvania Hazardous Waste Transporter License. Contact your transporter if you do not know this license number.

- E. This space may be used to explain or clarify any information entered on this form.

Enter the page number of each sheet in the lower right corner as well as the total number of pages in the report, e.g., Page 2 of 24. This is important to alert anyone to pages missing from your report and for reference purposes.

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PA00002311884
 II. TSD Facility's EPA I.D. No. MI0985619824
 TSD Facility's Name NORTRU RESOURCES
 Address 611 HILGER DETROIT MI 48214

III. WASTE SHIPPED OFF-SITE				
LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.
1	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 UN1325 PG II State Manifest Document Number - MI 4330949	F003 F005 0001	3307	KAH0451
2	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 UN1325 PG II State Manifest Document Number - MI 4330957	F003 F005 0001	1040	KAH0451
3	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 UN1325 PG II State Manifest Document Number - MI 4330952	F003 F005 0001	3378	KAH0451
4	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 UN1325 PG II State Manifest Document Number - MI 4330950	F003 F005 0001	2800	KAH0451
5	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 UN1325 PG II State Manifest Document Number - MI 4330951	F003 F005 0001	2758	KAH0451
6	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 UN1325 PG II State Manifest Document Number - MI 4330953	F003 F005 0001	4624	KAH0451
7	US DOT Description - State Manifest Document Number -			KAH
8	US DOT Description - State Manifest Document Number -			KAH
9	US DOT Description - State Manifest Document Number -			KAH
10	US DOT Description - State Manifest Document Number -			KAH

Comments: CONTAMINATED METAL CANS (1 THUR 6)

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PAB1234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest.)

If a waste is not identified in Chapter 261, it is not a hazardous waste and should not be reported. Do not enter US DOT UN or NA numbers.

- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
- D. For each shipment enter the Pennsylvania Hazardous Waste Transporter License Number issued by the Department. (Item C of Pennsylvania Manifest.) Do not enter vehicle license plate numbers or license numbers issued by other states. All hazardous waste transporters doing business in Pennsylvania must have a Pennsylvania Hazardous Waste Transporter License. Contact your transporter if you do not know this license number.
- E. This space may be used to explain or clarify any information entered on this form.

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GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PA00002311384
 II. TSD Facility's EPA I.D. No. ME0980615298
 TSD Facility's Name PETRO-CHEM PROC. GROUP OF NORTRU
 Address 421 LYCASTE DETROIT MI. 48214

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.	
				Part in Box	License No.
1	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4:1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4279117	F003 F005 D001	950	K X T H	AH0451
2	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4:1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4279117	F003 F005 D001	500	K X T H	AH0451
3	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4279117	F003 F005 D001	8,250	K X T H	AH0451
4	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4279117	D001	25,200	K X T H	AH0451
5	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4330934	F003 F005 D001	1,800	K X T H	AH0451
6	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4330944	F003 F005 D001	8,550	K X T H	AH0451
7	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (N-METHYL PYRROLIDONE) State Manifest Document Number - MI 4330944	D001	1,350	K X T H	AH0451
8	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4330945	F003 F005 D001	9,450	K X T H	AH0451
9	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (N-METHYL PYRROLIDONE) State Manifest Document Number - MI 4330945	D001	3,150	K X T H	AH0451
10	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4:1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4279121	F003 F005 D001	2,986	K X T H	AH0451

I. Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PAB1234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest.)

If a waste is not identified in Chapter 261, it is not a hazardous waste and should not be reported. Do not enter US DOT UN or NA numbers.

- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
- D. For each shipment enter the Pennsylvania Hazardous Waste Transporter License Number issued by the Department. (Item C of Pennsylvania Manifest.) Do not enter vehicle license plate numbers or license numbers issued by other states. All hazardous waste transporters doing business in Pennsylvania must have a Pennsylvania Hazardous Waste Transporter License. Contact your transporter if you do not know this license number.

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GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PAD0002317984
 II. TSD Facility's EPA I.D. No. MID0980615298
 TSD Facility's Name PETRO-CHEM PROC. GROUP OF NORTON
 Address 421 LYCASIE DETROIT MI 48214

III. WASTE SHIPPED OFF-SITE					
LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	Put in Box	D. PA Hazardous Waste Transporter License No.
1	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4279121	F003 F005 D001	5,000	K X T H	AH0451
2	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4279121	F003 F005 D001	11,250	K X T H	AH0451
3	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4279121	D001	4,050	K X T H	AH0451
4	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4279120	F003 F005 D001	5,289	K X T H	AH0451
5	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4279120	F003 F005 D001	1,500	K X T H	AH0451
6	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4279120	F003 F005 D001	1,250	K X T H	AH0451
7	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4279120	D001	6,300	K X T H	AH0451
8	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4330922	F003 F005 D001	2,172	K X T H	AH0451
9	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4330922	F003 F005 D001	1,000	K X T H	AH0451
10	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 (TOLUENE-XYLENE) UN1993 PG II State Manifest Document Number - MI 4330922	F003 F005 D001	5,550	K X T H	AH0451

I. Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PAB1234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest.)

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- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
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GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PA00002311884
 II. TSD Facility's EPA I.D. No. MI0980615293
 TSD Facility's Name PETRO-CHEM PROC. GROUP OF NORTRU
 Address 421 LYCASIE DETROIT MI. 48214

III. WASTE SHIPPED OFF-SITE				
LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.
1	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 (TOLUENE-XYLENE) UN1993 PG II State Manifest Document Number - MI 4330922	0001	900	AH0451
2	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4330943	0001	5850	AH0451
3	US DOT Description - RQ WASTE TETRAHYDROFURAN S UN2056 PG II State Manifest Document Number - MI 4330943	0001	9450	AH0451
4	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG (TOLUENE-XYLENE) State Manifest Document Number - MI 4330935	0001	5,400	AH0451
5	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (N-METHYLPIRROLIDINE) State Manifest Document Number - MI 4330935	0001	900	AH0451
6	US DOT Description - RQ WASTE TETRAHYDROFURAN S UN2056 PG II State Manifest Document Number - MI 4330935	0001	3150	AH0451
7	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4279118	0003	4800	AH0451
8	US DOT Description - RQ WASTE FLAMMABLE SOLID N.O.S. 4.1 (TOLUENE-XYLENE) UN1325 PG II State Manifest Document Number - MI 4279118	0003	800	AH0451
9	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4279118	0001	3250	AH0451
10	US DOT Description - RQ WASTE FLAMMABLE LIQUID N.O.S. 3 UN1993 PG II (TOLUENE-XYLENE) State Manifest Document Number - MI 4279118	0001	6,750	AH0451

Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

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Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

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GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. FAD0002311844
 II. TSD Facility's EPA I.D. No. ME0980615298
 TSD Facility's Name PETRO-CHEM PROC. GROUP OF MORTU
 Address 1421 LYCASTE DETROIT MI 48214

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.	
				Part	in Box
1	US DOT Description - <u>RQ WASTE FLAMMABLE LIQUID</u> <u>N.O.S 3 UN1993 PGII (TOLUENE-XYLENE)</u> State Manifest Document Number - <u>MI 4330936</u>	<u>F003</u> <u>F005</u> <u>D001</u>	<u>11,250</u>	<u>X</u>	<u>0451</u>
2	US DOT Description - <u>RQ WASTE TETRAHYDROFURAN</u> <u>UN 2056 PGII</u> State Manifest Document Number - <u>MI 4330936</u>	<u>D001</u>	<u>900</u>	<u>X</u>	<u>0451</u>
3	US DOT Description - <u>RQ WASTE FLAMMABLE SOLID</u> <u>N.O.S 4.1 (TOLUENE-XYLENE) UN1325 PGII</u> State Manifest Document Number - <u>MI 4279119</u>	<u>F003</u> <u>F005</u> <u>D001</u>	<u>3,444</u>	<u>X</u>	<u>0451</u>
4	US DOT Description - <u>RQ WASTE FLAMMABLE SOLID</u> <u>N.O.S 4.1 (TOLUENE-XYLENE) UN1325 PGII</u> State Manifest Document Number - <u>MI 4279119</u>	<u>F003</u> <u>F005</u> <u>D001</u>	<u>2,500</u>	<u>X</u>	<u>0451</u>
5	US DOT Description - <u>RQ WASTE FLAMMABLE LIQUID</u> <u>N.O.S 3 UN1993 PGII (TOLUENE-XYLENE)</u> State Manifest Document Number - <u>MI 4279119</u>	<u>F003</u> <u>F005</u> <u>D001</u>	<u>6,550</u>	<u>X</u>	<u>0451</u>
6	US DOT Description - <u>RQ WASTE FLAMMABLE LIQUID</u> <u>N.O.S 3 UN1993 PGII (TOLUENE-XYLENE)</u> State Manifest Document Number - <u>MI 4279119</u>	<u>D001</u>	<u>6,750</u>	<u>X</u>	<u>0451</u>
7	US DOT Description - State Manifest Document Number -			<u>K</u>	<u>AH</u>
8	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
9	US DOT Description - State Manifest Document Number -			<u>T</u>	<u>AH</u>
10	US DOT Description - State Manifest Document Number -			<u>M</u>	<u>AH</u>

Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

Form ER-WM-55 must be completed before proceeding to this form

INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

This form must be prepared by Pennsylvania generators of hazardous waste who make manifested shipments of hazardous waste off-site. Out of state generators must also complete this report for waste designated for treatment, storage, disposal, reuse, recycle, or reclamation within Pennsylvania.

Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA ID Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PA81234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest).

If a waste is not identified in Chapter 261, it is not a hazardous waste and should not be reported. Do not enter US DOT UN or NA numbers.

- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
- D. For each shipment enter the Pennsylvania Hazardous Waste Transporter License Number issued by the Department. (Item C of Pennsylvania Manifest.) Do not enter vehicle license plate numbers or license numbers issued by other states. All hazardous waste transporters doing business in Pennsylvania must have a Pennsylvania Hazardous Waste Transporter License. Contact your transporter if you do not know this license number.
- E. This space may be used to explain or clarify any information entered on this form.

Enter the page number of each sheet in the lower right corner as well as the total number of pages in the report, e.g., Page 2 of 24. This is important to alert anyone to pages missing from your report and for reference purposes.

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. FAAD002311884
 II. TSD Facility's EPA I.D. No. MA0980523203
 TSD Facility's Name CLEAN HARBORS CENATICK INC
 Address 10 MERCER ROAD NATICK MA 01560

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.	
				Part X in Box	License No.
1	US DOT Description - <u>COMPRESSED GASES, NOS 2.2 UN1956 NITROGEN CARBON DIOXIDE</u> State Manifest Document Number - <u>MA J025513</u>	<u>MA1919</u>	<u>3</u>	<u>X</u>	<u>0512</u>
2	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
3	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
4	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
5	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
6	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
7	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
8	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
9	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>
10	US DOT Description - State Manifest Document Number -			<u>P</u>	<u>AH</u>

Comments:

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

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INSTRUCTIONS FOR COMPLETING THE GENERATOR QUARTERLY HAZARDOUS WASTE REPORT
(Form ER-WM-55A)

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Section I - Enter your EPA ID Number. (Item 1 of the Manifest.)

Section II - Enter the EPA I.D. Number, name, and address of the treatment, storage, disposal, reuse, recycle, or reclamation facility where your waste was sent. (Item 10 of the Manifest.) Use a separate form 55A for each TSDR Facility.

Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

Enter the State abbreviation and State Manifest Document Number from Item A of the manifest, for example, PA81234567, or NJ1234567. If the manifest you used does not have a state manifest document number, enter the entire number from Item 1 of the manifest. This means the U.S. EPA twelve digit identification number assigned to the generator plus a unique five digit document number assigned to the Manifest by the generator for recording and reporting purposes.

- B. Enter the Hazardous Waste Number or Waste Type identified in chapter 261. For a mixture of wastes or more than one waste, enter each Hazardous Waste Number that describes the waste. Four spaces are provided for each line. If more space is needed, continue on the next line(s) and leave all other information on that line blank. (Item 1 of the Manifest).

If a waste is not identified in Chapter 261, it is not a hazardous waste and should not be reported. Do not enter US DOT UN or NA numbers.

- C. Enter the total weight of the shipment or line, and put an "X" in the block to indicate the unit of measure: pounds-P, tons-T, kilograms-K, metric tonnes-M. Volumes must not be reported but must be converted into weight taking into account the specific gravity or density of the waste. Do not enter gallons, liters or cubic yards.
- D. For each shipment enter the Pennsylvania Hazardous Waste Transporter License Number issued by the Department. (Item C of Pennsylvania Manifest.) Do not enter vehicle license plate numbers or license numbers issued by other states. All hazardous waste transporters doing business in Pennsylvania must have a Pennsylvania Hazardous Waste Transporter License. Contact your transporter if you do not know this license number.
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Enter the page number of each sheet in the lower right corner as well as the total number of pages in the report, e.g., Page 2 of 24. This is important to alert anyone to pages missing from your report and for reference purposes.

GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

I. Your EPA I.D. No. PA10002311884
 II. TSD Facility's EPA I.D. No. MD0980555189
 TSD Facility's Name CLEAN HARBORS OF BALTIMORE INC.
 Address 1910 RUSSELL ST. BALTIMORE MD 21230

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	D. PA Hazardous Waste Transporter License No.	
				Part X in Box	PA Hazardous Waste Transporter License No.
1	US DOT Description - WASTE ALUMINUM POWDER COATED 4.1 UN1309 PG II State Manifest Document Number - MDC 0553572	0001	5	X	AH0312
2	US DOT Description - WASTE AMMONIA SOLUTIONS 8 UN2672 PG III State Manifest Document Number - MDC 0553572	0002	80	X	AH0312
3	US DOT Description - WASTE FLAMMABLE LIQUIDS CORROSIVE NOS 3 UN2924 PG II State Manifest Document Number - MDC 0553572	0001	200	X	AH0312
4	US DOT Description - WASTE FLAMMABLE LIQUIDS N.O.S. 3 UN1993 PG I State Manifest Document Number - MDC 0553572	0052	200	X	AH0312
5	US DOT Description - WASTE POISONOUS LIQUIDS FLAMMABLE NOS 6.1 UN2929 PG II State Manifest Document Number - MDC 0553572	0001	21	X	AH0312
6	US DOT Description - WASTE TRICHLOROSILANE, 4.5 UN1245 PG I State Manifest Document Number - MDC 0555200	0002 0001 0003	1	X	AH0312
7	US DOT Description - RQ WASTE MERCURY, 8 UN2809 PG III State Manifest Document Number - MDC 0555200	0009	1	X	AH0312
8	US DOT Description - WASTE ORGANIC PEROXIDE TYPE C LIQUID 5.2 UN3103 PG II (T-BUTYL PEROXY) State Manifest Document Number - MDC 0555200	0001	16	X	AH0312
9	US DOT Description - WASTE ORGANIC PEROXIDE, LIQUID TYPE F 5.2 UN3105 PG II State Manifest Document Number - MDC 0555200	0001	11	X	AH0312
10	US DOT Description - WASTE FLAMMABLE LIQUIDS NOS 3 UN1993 PG II (PAINT BUTYL ACRYLATE) State Manifest Document Number - MDC 0555200	0001	355	X	AH0312

Comments: (3) MONOBUTHYLAMINE (5) VINYL PYRIDINE
(4) CYCLOHEXANONE BUTANOL (9) T-BUTYL HYDROPEROXIDE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

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(Form ER-WM-55A)

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Section III - Each numbered line or lines describes one shipment of hazardous waste shipped off-site.

- A. Enter the US DOT proper shipping name of the waste as identified in 49 CFR §172.101. When a waste is described by an "n.o.s." description, additional information should be provided, for example, Waste flammable liquid, n.o.s. (*contains mineral spirits and naptha*); Hazardous waste solid, n.o.s. (*wastewater treatment plant sludge containing lead*); or, Hazardous waste solid, n.o.s. (*soil contaminated with trichloroethylene*). (Items 11a - d of the Manifest.)

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GENERATOR QUARTERLY HAZARDOUS WASTE REPORT

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TSD Facility's Name CLEAN HARBORS OF BALTIMORE INC.
Address 1910 RUSSELL ST. BALTIMORE MD 21230

III. WASTE SHIPPED OFF-SITE

LINE NO.	A. US DOT Proper Shipping Name of Waste and State Manifest Document Number (include State Abbreviation)	B. Hazardous Waste Number	C. Weight of Shipment and Unit of Measure (P-pounds, T-ton, K-kilograms, M-metric ton) DO NOT ENTER GALLONS	Put in Box	D. PA Hazardous Waste Transporter License No.
1	US DOT Description - <u>WASTE FLAMMABLE SOLIDS</u> <u>M.C.S. 4.1 UN1325 PG II</u> State Manifest Document Number - <u>MDC 0555200</u>	<u>0001</u>	<u>305</u>	<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>0312</u>
2	US DOT Description - <u>WASTE POISONOUS SOLIDS</u> <u>M.C.S. 6.1 UN2811 PG II (BARIUM LEAD)</u> State Manifest Document Number - <u>MDC 0555200</u>	<u>0005</u> <u>0008</u> <u>0019</u>	<u>75</u>	<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>0312</u>
3	US DOT Description - State Manifest Document Number -			<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>AH</u>
4	US DOT Description - State Manifest Document Number -			<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>AH</u>
5	US DOT Description - State Manifest Document Number -			<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>AH</u>
6	US DOT Description - State Manifest Document Number -			<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>AH</u>
7	US DOT Description - State Manifest Document Number -			<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>AH</u>
8	US DOT Description - State Manifest Document Number -			<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>AH</u>
9	US DOT Description - State Manifest Document Number -			<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>AH</u>
10	US DOT Description - State Manifest Document Number -			<input checked="" type="checkbox"/> K <input checked="" type="checkbox"/> P <input checked="" type="checkbox"/> T <input checked="" type="checkbox"/> M	<u>AH</u>

Comments: (1) METHANOL, MOLECULAR SIEVES

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WASTE MANAGEMENT

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Enter the page number of each sheet in the lower right corner as well as the total number of pages in the report, e.g., Page 2 of 24. This is important to alert anyone to pages missing from your report and for reference purposes.

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E. I. DuPont DeNemours & Co., Inc.
Marshall LaboratoryEPA ID NO: P A D 0 0 2 3 1 1 8 8 4U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
ICIDENTIFICATION AND
CERTIFICATION

INSTRUCTIONS: Read the detailed instructions beginning on page 9 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I Site name and location address. Complete A through H. Check the box ☐ in items A, C, E, F, G, and H if same as label; if different, enter corrections. If label is absent, enter information. Instruction page 10.A. EPA ID No.
Same as label ☒ or

B. County

C. Site/company name
Same as label ☒ or D. Has the site name associated with this EPA ID changed since 1993? ☐ 1 Yes
☒ 2 NoE. Street name and number. If not applicable, enter industrial park, building name, or other physical location description.
Same as label ☐ or 3401 Grays Ferry Ave.F. City, town, village, etc.
Same as label ☐ or Phila.G. State
Same as label P AH. Zip Code
Same as label 1 9 1 4 6 -

Sec. II Mailing address of site. Instruction page 10.

A. Is the mailing address the same as the location address? ☒ 1 Yes (SKIP TO SEC. III)
☐ 2 No (GO TO BOX B)

B. Number and street name of mailing address

C. City, town, village, etc.

D. State
 E. Zip Code

Sec. III Name, title, and telephone number of the person who should be contacted if questions arise regarding this report. Instruction page 10.

A. Please print: Last Name First name M.I.
Weldon John G.B. Title
Environmental CoordinatorC. Telephone
2 1 5 3 3 9 - 6 6 2 9
Extension

Sec. IV "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for knowing violations."

A. Please print: Last Name First name M.I.
Weldon John GB. Title
Environmental CoordinatorC. Signature
John G. WeldonD. Date of signature
0 2 2 1 9 6
MO. DAY YR.

Sec.V - Generator Status. Instruction pages 10, 12.

A. 1995 RCRA generator status

(CHECK ONE BOX BELOW)

- ☒ 1 LQG
☐ 2 SQG SKIP to SEC. VI
☐ 3 CESQG --
☐ 4 Non generator (Continue to Box B)

B. Reason for not generating

(CHECK ALL THAT APPLY)

- ☐ 1 Never generated
☐ 2 Out of business
☐ 3 Only excluded or delisted waste
☐ 4 Only non-hazardous waste
☐ 5 Periodic or occasional generator
☐ 6 Waste minimization activity
☐ 7 Other (SPECIFY COMMENTS IN BOX BELOW)

Sec.VI - On-Site Waste Management Status. Instruction pages 13, 14.

A. Storage subject to RCRA permitting requirements

1

B. Treatment, disposal, or recycling subject to RCRA permitting requirements

1

C. RCRA-exempt treatment, disposal, or recycling

1

Sec.VII - Waste Minimization Activity during 1994 or 1995. Instruction pages 14, 15.

A. Did this site begin or expand a source reduction activity during 1994 or 1995?

- ☒ 1 Yes
☐ 2 No

B. Did this site begin or expand a recycling activity during 1994 or 1995?

- ☒ 1 Yes
☐ 2 No

C. Did this site systematically investigate opportunities for source reduction or recycling during 1994 or 1995?

- ☒ 1 Yes
☐ 2 No

D. Did any of the factors listed below delay or limit this site's ability to initiate new or additional source reduction activities in 1994 or 1995? (CHECK YES OR NO FOR EACH ITEM)

- | Yes | No | |
|----------------------------|---------------------------------------|--|
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | a. Insufficient capital to install new source reduction equipment or implement new source reduction practices |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | b. Lack of technical information on source reduction techniques applicable to the specific production processes |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | c. Source reduction is not economically feasible: cost savings in waste management or production will not recover the capital investment |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | d. Concern that product quality may decline as a result of source reduction |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | e. Technical limitations of the production processes |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | f. Permitting burdens |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | g. Source reduction previously implemented - additional reduction does not appear to be technically feasible |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | h. Source reduction previously implemented - additional reduction does not appear to be economically feasible |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | i. Source reduction previously implemented - additional reduction does not appear to be feasible due to permitting requirements |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | j. Other (SPECIFY COMMENTS IN BOX BELOW) |

E. Did any of the factors listed below delay or limit the site's ability to initiate new or additional on-site or off-site recycling activities during 1994 or 1995? (CHECK YES OR NO FOR EACH ITEM)

- | Yes | No | | Yes | No | |
|----------------------------|---------------------------------------|---|----------------------------|---------------------------------------|--|
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | a. Insufficient capital to install new recycling equipment or implement new recycling practice | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | g. Technical limitations of production processes inhibit shipments off-site for recycling |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | b. Lack of technical information on recycling techniques applicable to this site's specific production process | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | h. Technical limitations of production processes inhibit on-site recycling |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | c. Recycling is not economically feasible: cost savings in waste management will not recover the capital investment | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | i. Permitting burdens inhibit recycling |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | d. Concern that product quality may decline as a result of recycling | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | j. Lack of permitted off-site recycling facilities |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | e. Requirements to manifest wastes inhibit shipments of off-site for recycling | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | k. Unable to identify a market for recycled materials |
| <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | f. Financial liability provisions inhibit shipments off-site for recycling | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | l. Recycling previously implemented - additional recycling does not appear to be technically feasible |
| | | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | m. Recycling previously implemented - additional recycling does not appear to be economically feasible |
| | | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | n. Recycling previously implemented - additional recycling does not appear to be feasible due to permitting requirements |
| | | | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | o. Other (SPECIFY COMMENTS IN BOX BELOW) |

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E.I. DuPont DeNemours & Co., Inc.
Marshall LaboratoryEPA ID NO: P A D 0 0 2 3 1 1 8 8 4U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
GMWASTE GENERATION
AND MANAGEMENT

INSTRUCTIONS Read the detailed instructions beginning on page 16 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I		A. Waste description - Instruction page 18. Waste Flammable Liquid, From Paint Coatings R&D Operations Spent Solvents - Xylene toluene Acetone and Methyleneethyl Ketone				
B. EPA hazardous waste code Page 19. <u>F 0 0 3</u> <u>F 0 0 5</u> <u>D 0 0 1</u> <u>D 0 3 5</u>		C. State hazardous waste code Page 19. _____				
D. SIC code Page 19. <u>2 8 5 1</u>	E. Origin code <u>1</u> Page 19 System Type <u>LM</u>	F. Source code Page 20. <u>A 9 4</u>	G. Point of measurement Page 20. <u>2</u>	H. Form code Page 20. <u>3 2 0 3</u>	I. RCRA - radioactive mixed Page 20. <u>2</u>	

Sec. II		A. Quantity generated in 1994 Instruction Page 21. <u>2 1 7 1 0 5 . 0</u>	B. Quantity generated in 1995 Page 21. <u>2 5 3 7 4 0 . 0</u>	C. UOM Page 21. <u>1</u> <input type="checkbox"/> 1 lbs/gal <input type="checkbox"/> 2 sg	D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21. <input checked="" type="checkbox"/> 1 Yes (CONTINUE TO SYSTEM 1) <input checked="" type="checkbox"/> 2 No (SKIP TO SEC. III)
ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2			
On-site process system type Page 22. <u>LM</u>		Quantity treated, disposed, or recycled on site in 1995 _____		On-site process system type Page 22. <u>LM</u>	
		Quantity treated, disposed, or recycled on site in 1995 _____			

Sec. III		A. Was any of this waste shipped off-site in 1995 <input checked="" type="checkbox"/> 1 Yes (CONTINUE TO BOX 8) Instruction page 22. <input type="checkbox"/> 2 No (SKIP TO SEC IV)			
Site 1	B. EPA ID No. of facility waste was shipped to Page 23. <u>M I D 9 8 0 6 1 5 2 9 8</u>	C. System type shipped to Page 23. <u>0 2 1</u>	D. Off-site availability code Page 23. <u>1</u>	E. Total quantity shipped in 1995 Page 23. <u>2 5 3 7 4 0 . 0</u>	
Site 2	B. EPA ID No. of facility waste was shipped to Page 23. _____	C. System type shipped to Page 23. <u>LM</u>	D. Off-site availability code Page 23. _____	E. Total quantity shipped in 1995 Page 23. _____	

Sec. IV		A. Did new activities in 1995 result in minimization of this waste? <input type="checkbox"/> 1 Yes (CONTINUE TO BOX 8) Instruction page 24. <input checked="" type="checkbox"/> 2 No (THIS FORM IS COMPLETE)			
B. Activity Page 24. <u>W</u> <u>W</u> <u>W</u> <u>W</u>	C. Other effects Page 25. <input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No	D. Quantity recycled in 1995 due to new activities Page 25. _____	E. Activity/production index Page 25. _____	F. 1995 source reduction quantity Page 26. _____	

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E.I. DuPont DeNemours & Co., Inc.
Marshall LaboratoryEPA ID NO: P A D 0 0 2 3 1 1 8 8 4U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
GMWASTE GENERATION
AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I A. Waste description Instruction page 18.
Waste Tetrahydrofuran, from R&D Coatings Operations, (Spent Solvent)

B. EPA hazardous waste code Page 19.

D 0 0 1

C. State hazardous waste code Page 19.

D. SIC code Page 19.

2 8 5 1E. Origin code 1 Page 19

System

Type 1

F. Source code Page 20.

A 9 4

G. Point of measurement

Page 20.

1

H. Form code

Page 20.

3 2 0 3

I. RCRA - radioactive mixed Page 20.

2Sec. II A. Quantity generated in 1994
Instruction Page 21.1 3 8 9 7 6 . 0B. Quantity generated in 1995
Page 21.1 4 9 0 9 0 . 0C. UOM
Page 21.1

Density

☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.

☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type
Page 22.Quantity treated, disposed, or recycled on site
in 1995

ON-SITE PROCESS SYSTEM 2

On-site process system type
Page 22.Quantity treated, disposed, or recycled on site
in 1995Sec. III A. Was any of this waste shipped off-site in 1995 ☒ 1 Yes (CONTINUE TO BOX B)
Instruction page 22. ☐ 2 No (SKIP TO SEC. IV)

Site 1

B. EPA ID No. of facility waste was shipped to
Page 23.M I D 9 8 0 6 1 5 2 9 8C. System type shipped to
Page 23.M 0 2 1D. Off-site
availability code
Page 23.1E. Total quantity shipped in 1995
Page 23.1 4 9 0 9 0 . 0

Site 2

B. EPA ID No. of facility waste was shipped to
Page 23.C. System type shipped to
Page 23.D. Off-site
availability code
Page 23.E. Total quantity shipped in 1995
Page 23.Sec. IV A. Did new activities in 1995 result in minimization of this waste? ☐ 1 Yes (CONTINUE TO BOX B)
Instruction page 24. ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.

1 1
1 1

C. Other effects Page 25.

☐ 1 Yes
☐ 2 NoD. Quantity recycled in 1995 due to new activities
Page 25.E. Activity/production
index Page 25.

F. 1995 source reduction quantity Page 26.

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E.I. DuPont DeNemours & Co., Inc.
Marshall LaboratoryEPA ID NO: P A D 0 0 2 3 1 1 8 8 4U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
GMWASTE GENERATION
AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 13 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I A. Waste description Instruction page 18. Hazardous Waste Solid, (Contaminated Lab Items, Glass Plastic, Paper, and Resin Residue)

B. EPA hazardous waste code Page 19.

F 0 0 3 F 0 0 5D 0 0 1

C. State hazardous waste code Page 19.

D. SIC code Page 19.

2 8 5 1E. Origin code ☒ Page 19

System

Type L M

F. Source code Page 20.

A 9 4G. Point of measurement
Page 20.4H. Form code
Page 20.3 3 1 9

I. RCRA - radioactive mixed Page 20.

2Sec. II A. Quantity generated in 1994
Instruction Page 21.1 3 5 6 3 0 . 0B. Quantity generated in 1995
Page 21.1 3 5 6 0 8 . 0C. UOM
Page 21.1 • ☐ 1 lbs/gal ☐ 2 sg

Density

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.

☐ 1 Yes (CONTINUE TO SYSTEM 1)☒ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type
Page 22.L MQuantity treated, disposed, or recycled on site
in 1995 •

ON-SITE PROCESS SYSTEM 2

On-site process system type
Page 22.L MQuantity treated, disposed, or recycled on site
in 1995 • Sec. III A. Was any of this waste shipped off-site in 1995
Instruction page 22. ☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC. IV)

Site 1

B. EPA ID No. of facility waste was shipped to
Page 23.M I D 9 8 0 6 1 5 2 9 8C. System type shipped to
Page 23.L M 0 6 1D. Off-site
availability code
Page 23.1E. Total quantity shipped in 1995
Page 23.1 3 5 6 0 8 . 0

Site 2

B. EPA ID No. of facility waste was shipped to
Page 23. • C. System type shipped to
Page 23.L MD. Off-site
availability code
Page 23. E. Total quantity shipped in 1995
Page 23. • Sec. IV A. Did new activities in 1995 result in minimization of this waste? ☐ 1 Yes (CONTINUE TO BOX B)
Instruction page 24. ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.

W W
W W

C. Other effects Page 25.

☐ 1 Yes☐ 2 NoD. Quantity recycled in 1995 due to new activities
Page 25. • E. Activity/production
index Page 25. •

F. 1995 source reduction quantity Page 28.

 •

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E.I. DuPont De Nemours & Co., Inc.
Marshall LaboratoryEPA ID NO: P A D 0 0 2 3 1 1 8 8 4U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
GMWASTE GENERATION
AND MANAGEMENT

INSTRUCTIONS Read the detailed instructions beginning on page 16 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I A. Waste description - instruction page 18.
Hazardous Waste Solid, (Contaminated Lab Containers, Metal)

B. EPA hazardous waste code Page 19.

F 0 0 3 F 0 0 5D 0 0 1

C. State hazardous waste code Page 19.

D. SIC code Page 19.

2 8 5 1

E. Origin code Page 19

System

Type

F. Source code Page 20.

A 9 4G. Point of measurement
Page 20.4H. Form code
Page 20.3 3 0 8

I. RCRA - radioactive mixed Page 20.

2Sec. II A. Quantity generated in 1994
Instruction Page 21.7 6 7 3 7 0B. Quantity generated in 1995
Page 21.8 2 1 4 4 0C. UOM
Page 21.1

Density

☐ 1 lbs/gal ☐ 2 sg

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.

☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type
Page 22.Quantity treated, disposed, or recycled on site
in 1995

ON-SITE PROCESS SYSTEM 2

On-site process system type
Page 22.Quantity treated, disposed, or recycled on site
in 1995Sec. III A. Was any of this waste shipped off-site in 1995
Instruction page 22. ☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC. IV)

Site 1

B. EPA ID No. of facility waste was shipped to
Page 23.M I D 9 8 5 6 1 9 8 2 4C. System type shipped to
Page 23.M 1 2 5D. Off-site
availability code
Page 23.1E. Total quantity shipped in 1995
Page 23.8 2 1 4 4 0

Site 2

B. EPA ID No. of facility waste was shipped to
Page 23.C. System type shipped to
Page 23.D. Off-site
availability code
Page 23.E. Total quantity shipped in 1995
Page 23.Sec. IV A. Did new activities in 1995 result in minimization of this waste? ☐ 1 Yes (CONTINUE TO BOX B)
Instruction page 24. ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.

W W
W W

C. Other effects Page 25.

☐ 1 Yes
☐ 2 NoD. Quantity recycled in 1995 due to new activities
Page 25.E. Activity/production
index Page 25.

F. 1995 source reduction quantity Page 26.

Comments:

Sec III Box C - Scrap Steel for Recycling

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E.I. DuPont DeNemours & Co., Inc.
Marshall LaboratoryEPA ID NO: P A D 0 0 2 3 1 1 8 8 4U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
GMWASTE GENERATION
AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I						A. Waste description - Instruction page 18. Waste Combustible Liquid, (Water Based Paints and Resins) from R&D Paint Coatings Operations					
B. EPA hazardous waste code Page 19. <u>F 0 0 3</u> <u>F 0 0 5</u> <u>D 0 3 5</u>						C. State hazardous waste code Page 19. _____					
D. SIC code Page 19. <u>2 8 5 1</u>		E. Origin code <u>1</u> Page 19 System _____ Type <u>L M</u>		F. Source code Page 20. <u>A 9 4</u>		G. Point of measurement Page 20. <u>1</u>		H. Form code Page 20. <u>3 1 0 1</u>		I. RCRA - radioactive mixed Page 20. <u>2</u>	

Sec. II		A. Quantity generated in 1994 Instruction Page 21. <u>2 6 1 5 2 5</u> <u>0</u>		B. Quantity generated in 1995 Page 21. <u>2 2 7 7 7 5</u> <u>0</u>		C. UOM Page 21. <u>1</u> _____ <input type="checkbox"/> 1 lbs/gal <input type="checkbox"/> 2 sg		D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21. <input type="checkbox"/> 1 Yes (CONTINUE TO SYSTEM I) <input checked="" type="checkbox"/> 2 No (SKIP TO SEC. III)	
ON-SITE PROCESS SYSTEM 1				ON-SITE PROCESS SYSTEM 2					
On-site process system type Page 22. <u>M</u>		Quantity treated, disposed, or recycled on site in 1995 _____		On-site process system type Page 22. <u>M</u>		Quantity treated, disposed, or recycled on site in 1995 _____			

Sec. III					A. Was any of this waste shipped off-site in 1995 <input type="checkbox"/> 1 Yes (CONTINUE TO BOX 8) Instruction page 22. <input checked="" type="checkbox"/> 2 No (SKIP TO SEC IV)				
Site 1		B. EPA ID No. of facility waste was shipped to Page 23. <u>N J D 0 0 2 3 8 5 7 3 0</u>		C. System type shipped to Page 23. <u>M 0 9 4</u>		D. Off-site availability code Page 23. <u>1</u>		E. Total quantity shipped in 1995 Page 23. <u>1 6 6 9 7 5</u> <u>0</u>	
Site 2		B. EPA ID No. of facility waste was shipped to Page 23. <u>M I D 9 8 0 6 1 5 2 9 8</u>		C. System type shipped to Page 23. <u>M 1 4 1</u>		D. Off-site availability code Page 23. <u>1</u>		E. Total quantity shipped in 1995 Page 23. <u>6 0 8 0 0</u> <u>0</u>	

Sec. IV						A. Did new activities in 1995 result in minimization of this waste? <input type="checkbox"/> 1 Yes (CONTINUE TO BOX 8) Instruction page 24. <input checked="" type="checkbox"/> 2 No (THIS FORM IS COMPLETE)					
B. Activity Page 24. <u>L W</u> <u>L W</u> <u>L W</u> <u>L W</u>		C. Other effects Page 25. <input type="checkbox"/> 1 Yes <input checked="" type="checkbox"/> 2 No		D. Quantity recycled in 1995 due to new activities Page 25. _____		E. Activity/production index Page 25. _____		F. 1995 source reduction quantity Page 26. _____			

Comments:

Site I - Sec. III C. Neutralization and Biological Treatment

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E.I. DuPont DeNemours & Co., Inc.
Marshall LaboratoryEPA ID NO: P A D 0 0 2 3 1 1 8 8 4U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
GMWASTE GENERATION
AND MANAGEMENT

INSTRUCTIONS Read the detailed instructions beginning on page 16 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I A. Waste description - Instruction page 18.
Waste Flammable Liquid Off Spec, Monomers and Resins, from R&D Coatings Operations

B. EPA hazardous waste code Page 19.

D 0 0 1

C. State hazardous waste code Page 19.

D. SIC code Page 19.

2 8 5 1

E. Origin code Page 19

System
Type L M

F. Source code Page 20.

A 9 4G. Point of measurement
Page 20.1H. Form code
Page 20.3 2 1 9

I. RCRA - radioactive mixed Page 20.

2Sec. II A. Quantity generated in 1994
Instruction Page 21.1 5 6 4 9 7 0B. Quantity generated in 1995
Page 21.1 2 0 9 5 0 0C. UOM
Page 21.1 1 1 1
☐ 1 lbs/gal ☐ 2 sg

Density

D. Did this site do any of the following to this waste: treat on
site, dispose on site, recycle on site, or discharge to a
sewer/POTW? Page 21.☐ 1 Yes (CONTINUE TO SYSTEM 1)
☒ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type
Page 22.Quantity treated, disposed, or recycled on site
in 1995

ON-SITE PROCESS SYSTEM 2

On-site process system type
Page 22.Quantity treated, disposed, or recycled on site
in 1995Sec. III A. Was any of this waste shipped off-site in 1995 ☒ 1 Yes (CONTINUE TO BOX B)
Instruction page 22. ☐ 2 No (SKIP TO SEC IV)

Site 1

B. EPA ID No. of facility waste was shipped to
Page 23.M I D 9 8 0 6 1 5 2 9 8C. System type shipped to
Page 23.L M 0 6 1D. Off-site
availability code
Page 23.1E. Total quantity shipped in 1995
Page 23.1 2 0 9 5 0 0

Site 2

B. EPA ID No. of facility waste was shipped to
Page 23.1 1 1 1 1 1 1 1 1 1C. System type shipped to
Page 23.L M 1 1 1 1D. Off-site
availability code
Page 23.1E. Total quantity shipped in 1995
Page 23.1 1 1 1 1 1 1 1 1 1Sec. IV A. Did new activities in 1995 result in minimization of this waste? ☐ 1 Yes (CONTINUE TO BOX B)
Instruction page 24. ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.

L W 1 1 L W 1 1
L W 1 1 L W 1 1

C. Other effects Page 25.

☐ 1 Yes
☐ 2 NoD. Quantity recycled in 1995 due to new activities
Page 25.1 1 1 1 1 1 1 1 1 1E. Activity/production
index Page 25.1 1 1 1

F. 1995 source reduction quantity Page 26.

1 1 1 1 1 1 1 1 1 1

Comments:

Sec. I, Box H-Off Spec Paints Resins and Monomers

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E.I. DuPont DeNemours & Co., Inc.
Marshall LaboratoryEPA ID NO: P.A.D. 002 311 884U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
GMWASTE GENERATION
AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I A. Waste description - Instruction page 18.
Waste Flammable Liquid, From Paint Coatings R&D Operations Spent-
N-Methyl-2-Pyrrolidone

B. EPA hazardous waste code Page 19.

D001

C. State hazardous waste code Page 19.

D. SIC code Page 19.

2851E. Origin code 1 Page 19

System

Type LM

F. Source code Page 20.

A94G. Point of measurement
Page 20.2H. Form code
Page 20.3203

I. RCRA - radioactive mixed Page 20.

2

Sec. II A. Quantity generated in 1994
Instruction Page 21.

31845.0B. Quantity generated in 1995
Page 21.13050.0C. UOM
Page 21.11 0 0 0☐ 1 lbs/gal ☐ 2 sg

Density

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.

☐ 1 Yes (CONTINUE TO SYSTEM 1)☒ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type
Page 22.Quantity treated, disposed, or recycled on site
in 1995

ON-SITE PROCESS SYSTEM 2

On-site process system type
Page 22.Quantity treated, disposed, or recycled on site
in 1995

Sec. III A. Was any of this waste shipped off-site in 1995
Instruction page 22.

☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (SKIP TO SEC. IV)

Site 1

B. EPA ID No. of facility waste was shipped to
Page 23.MID 980 615 298C. System type shipped to
Page 23.M021D. Off-site
availability code
Page 23.1E. Total quantity shipped in 1995
Page 23.13050.0

Site 2

B. EPA ID No. of facility waste was shipped to
Page 23.C. System type shipped to
Page 23.D. Off-site
availability code
Page 23.E. Total quantity shipped in 1995
Page 23.

Sec. IV A. Did new activities in 1995 result in minimization of this waste? ☐ 1 Yes (CONTINUE TO BOX B)
Instruction page 24. ☒ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.

LM LM
LM LM

C. Other effects Page 25.

☐ 1 Yes
☐ 2 NoD. Quantity recycled in 1995 due to new activities
Page 25.1 0 0 0 0 0 0 0 0 0E. Activity/production
index Page 25.1 0 0 0 0 0 0 0 0 0

F. 1995 source reduction quantity Page 26.

1 0 0 0 0 0 0 0 0 0

Comments:

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: E.I. DuPont DeNemours & Co., Inc.
Marshall Laboratory

EPA ID NO: P.A.D. 002 311 884



U.S. ENVIRONMENTAL
PROTECTION AGENCY

1995 Hazardous Waste Report

FORM
GM

WASTE GENERATION
AND MANAGEMENT

INSTRUCTIONS: Read the detailed instructions beginning on page 16 of the 1995 Hazardous Waste Report booklet before completing this form.

Sec. I A. Waste description - Instruction page 18.
Supplement Page

B. EPA hazardous waste code Page 19.

C. State hazardous waste code Page 19.

D. SIC code Page 19.

E. Origin code Page 19

System _____
 Type LM _____

F. Source code Page 20.

A _____

G. Point of measurement Page 20.

H. Form code Page 20.

3 _____

I. RCRA - radioactive mixed Page 20.

Sec. II A. Quantity generated in 1994
Instruction Page 21.

B. Quantity generated in 1995
Page 21.

C. UOM Page 21.

Density

☐ 1 lbs/gal ☐ 2 sq

D. Did this site do any of the following to this waste: treat on site, dispose on site, recycle on site, or discharge to a sewer/POTW? Page 21.

☐ 1 Yes (CONTINUE TO SYSTEM 1)
☐ 2 No (SKIP TO SEC. III)

ON-SITE PROCESS SYSTEM 1

On-site process system type
Page 22.

LM _____

Quantity treated, disposed, or recycled on site
in 1995

ON-SITE PROCESS SYSTEM 2

On-site process system type
Page 22.

LM _____

Quantity treated, disposed, or recycled on site
in 1995

Sec. III A. Was any of this waste shipped off-site in 1995 ☒ 1 Yes (CONTINUE TO BOX B)
Instruction page 22. ☐ 2 No (SKIP TO SEC IV)

Site 1

B. EPA ID No. of facility waste was shipped to Page 23.

I L D 9 8 0 6 1 3 9 1 3

C. System type shipped to Page 23.

M 0 2 1

D. Off-site availability code Page 23.

1

E. Total quantity shipped in 1995 Page 23.

8 1 0 0 . 0

Site 2

B. EPA ID No. of facility waste was shipped to Page 23.

C. System type shipped to Page 23.

LM _____

D. Off-site availability code Page 23.

E. Total quantity shipped in 1995 Page 23.

Sec. IV A. Did new activities in 1995 result in minimization of this waste? ☐ 1 Yes (CONTINUE TO BOX B)
Instruction page 24. ☐ 2 No (THIS FORM IS COMPLETE)

B. Activity Page 24.

C. Other effects Page 25.

☐ 1 Yes
☐ 2 No

D. Quantity recycled in 1995 due to new activities Page 25.

E. Activity/production index Page 25.

F. 1995 source reduction quantity Page 26.

Comments:

GENERATOR CHECKLIST - PA FACILITIES

Name of Facility: DuPont Automotive-marshall Research Lab.

Address of Facility: 3401 Grays Ferry Avenue
Philadelphia, PA 19146

EPA I.D. Number: 215-339-6552

Name/Title of Facility

Representative: William J. Gillan
Manager - Safety, Health & Medical

Jerome W. Shemechko
Environmental Coordinator
Staff Chemist

I. General

1. Provide a brief description of the type of operation(s) that produces hazardous waste at this facility:

E.I. DuPont marshall Laboratory is a research facility for aftermarket car paint. The paint developed here is used to repaint a car, for example, after collision. The laboratory is located on 32 acres of property in south Philadelphia. Staffing is about 500. For the most part, the facility operated five days per week.

2. Does the facility perform the following on-site:

a. storage (>90 day) of hazardous waste? NO

b. treatment of hazardous waste? NO

c. disposal of hazardous waste? NO

(if yes, complete appropriate TSD checklists)

261.4

3. Is the facility subject to any exclusions for its hazardous waste? NO

262.11(a) (3)

4. Has the facility properly determined whether all of its waste exhibits any of the characteristics of hazardous waste? YES

If yes, describe what this determination was based upon (i.e., testing or knowledge of process/materials used).
KNOWLEDGE OF WASTE FRO MISC. DEBRIS ANDRESINS AND WASTE DISPOSER FOR FREQUENTLY DISPOSED SOLVENTS LAB PACKS RELY ON CONTRACTOR WHO DISPOSES OF WASTE

5. Has the facility failed to notify the State of any of its hazardous waste management activities, including locations of all hazardous waste accumulation areas? NO

II. Manifest

Complete this section only if facility ships hazardous waste off-site.

262.12(d)

1. Has the generator offered a shipment of hazardous waste to a transporter that has not received an identification number? YES

262.20(b)

2. Does the facility use the Hazardous Waste Manifest provided by Pa DER whenever transporting hazardous waste? YES

If yes, review a representative number of manifests and indicate whether they contain:

262.20(g)

a. Generator's name, mailing address, telephone number and EPA ID number? YES

b. EPA/State manifest document numbers? YES

c. Total number of pages used to complete the manifest? YES

d. Transporter's name and EPA ID number? YES

e. DOT waste description, including proper shipping name, hazardous waste class and DOT identification number? YES

f. Physical state and hazard codes for each waste? YES

g. Number and type of containers (if applicable)? YES

h. Quantity (either weight or volume) of each waste transported by hazardous waste number? YES

i. Name, EPA ID number and site address of facility designated to receive the waste? YES

j. The following certification? YES

"I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labelled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage or disposal currently available to me which minimizes the present and future threat to human health and environment."

262.22

3. Does the manifest consist of eight copies? YES

262.23

4. Did the generator:

a. Sign and date the certification statement on the manifest? YES

b. Obtain the handwritten signature and date of acceptance from the initial transporter? YES

c. Ensure that copies of the manifest were properly distributed? YES

d. Ensure that return copies of the manifest from the designated TSD facility were properly signed and dated? YES

e. Retain a copy of the signed manifest for at least twenty years? YES

The inspector should obtain copies of any manifests that are found to have problems. ALTHOUGH NO MANIFEST PROBLEMS WERE OBSERVED, SAMPLE MANIFESTS ARE ATTACHED TO INSPECTION REPORT FOR YOUR REVIEW

III. Pre-Transport Requirements

Complete this section only if the facility ships hazardous waste off site.

1. Is there any indication that the facility is:

262.30(1)

a. Not packaging its waste in accordance with DOT regulations (49 CFR Parts 173, 178 and 179)? NO

262.30(2)

b. Not labelling each package in accordance with DOT regulations (49 CFR Part 172)? NO

262.30(3)

c. Not marking each container of 110 gallons or less with the words "hazardous waste -----" or each package of hazardous waste in accordance with DOT regulations (49 CFR Part 172)? NO

262.33

2. Does the facility placard or offer the transporter placards for its hazardous waste shipments? YES

IV. Waste Accumulation

Complete this section only if the facility accumulates hazardous waste for less than 90 days.

Note: Satellite accumulation is not allowed in Pa.

262.34(a)(5)

1. Does the facility maintain personnel training and other records required in 265.16? YES

If yes, do these records include:

265.16(f)(1)

a. Job title for each position related to hazardous waste management and the employee filling each job? YES

265.16(f)(2)

b. A written job description for each position?
YES BUT GENERAL ESSCRIPTION NOT SPECIFIC FOR HAZ. WASTE

265.16(f)(3)

c. A written description of the type and amount of training that will be given to each person? YES

265.16(f) (4)

d. Records that document that the training or job experience required by facility personnel to effectively respond to emergencies and otherwise manage hazardous waste in a proper manner has been successfully completed?
YES

265.16(d)

2. Have facility personnel successfully completed the required training or job experience within six months after occupying the position? YES THROUGH PERSONNEL OFFICE

265.16(e)

3. Do facility personnel take part in an annual review of the initial training requirements and update them as necessary?
YES - REVIEWED RECORDS FOR 1995; TRAINING ABOUT 1HR

262.34(a) (5)

4. Does the facility maintain an adequate preparedness and prevention program as required in Chapter 265 Subpart C?
YES

Is the facility equipped with:

265.32(1)

a. Internal communications or alarm system? YES

265.32(2)

b. Telephone or hand-held two-way radio, immediately available? YES

265.32(3)

c. Portable fire extinguishers or other fire control equipment, spill control equipment and decontamination equipment? YES

265.32(4)

d. Adequate volume of water? YES

265.33

5. Does the facility test and maintain the above equipment to assure its proper operation? YES

265.35

6. Is there sufficient aisle space to allow the unobstructed movement of personnel and equipment to areas where hazardous waste are located in the event of an emergency? YES

265.37(a) (1)

7. Has the facility made arrangements with local authorities to familiarize them with the layout of the facility and the nature/hazards of the hazardous waste handled at the facility?

YES PHILA. FIRE DEPT. INSPECTS FACILITY

262.34(a)(5)

8. Has the facility prepared a contingency plan and is it maintained at the facility? YES

If yes, does it contain the following:

265.52(a)

a. Description of the actions that are to be taken in case of an emergency (all potential types of emergencies should be identified)? YES

265.52(c)

b. Description of arrangements made with local authorities? YES

265.52(d)

c. Current list of emergency coordinators' names, addresses and phone numbers (office and home)? YES

265.52(e)

d. List of all emergency equipment at the facility, including locations, descriptions and relevant capabilities? YES BUT NO CAPABILITIES

265.52(f)

e. evacuation plan for facility personnel? YES

The inspector should obtain a copy of the facility's contingency plan if any problems are found.

265.53(2)

9. Were copies of the contingency plan submitted to local authorities that may provide emergency services? YES

10. Has the facility's contingency plan ever failed in an emergency? NEVER USED FOR AN EMERGENCY

262.34(a)(2)

13. What is the method of waste storage:

Containers? YES

Tanks? NO

Containment Buildings? NO

Other? NO

Answer the following questions if the facility uses container storage.

262.34(a)(2) & (4)

14. Are the container(s) marked with the yellow DOT Hazardous Waste labels and the date that waste accumulation in that container begins? SEE REPORT

262.34(a)

15. Based upon accumulation dates, have any container(s) been in storage for more than 90 days? SEE REPORT

If yes, the inspector should complete the appropriate TSD checklists.

265.171

16. Are container(s) in good condition? YES

265.172

17. Are container(s) made of or lined with materials which will not react with or be incompatible with the waste they are storing? YES

265.173(a)

18. Are container(s) kept closed? NO SEE

265.171

19. Are any container(s) leaking? NO

265.174

20. Are container storage area(s) inspected at least weekly and is an adequate inspection record/log maintained? NO SEE REPORT

265.176

21. Are container(s) holding ignitable or reactive waste located at least 15 meters (50 feet) from the facility's property line? YES

22. Are incompatible wastes placed in the same container(s)? NO

265.177(a)

a. Is there any evidence that conditions of extreme heat or pressure, fire or explosion, violent reactions or toxic emissions occurred? NO

265.177(c)

23. Are container(s) holding incompatible hazardous waste properly separated or protected from one another while in storage? N/A

265.178(a)

24. Does the container storage area have an effective containment system capable of collecting and holding spills, leaks and precipitation? YES

265.178(a)(2)

a. Does the containment system provide efficient drainage from the base to a sump or collection system?
YES

265.178(a)(3)

b. Does the containment system have sufficient capacity to contain the entire volume of the largest container or 10% of the total volume of all the containers, whichever is greater? YES

265.178(b)

c. Is run-on into the containment system prevented?
YES

265.178(c)

d. Is spilled or leaked waste removed from the sump or collection system with sufficient frequency to prevent overflow? YES

25. In the case of flowable liquid wastes (<20% solids) in containers of less than 110 gal capacity:

265.178(e)(1)

a. Does the container height exceed 6 feet for indoor storage of reactive or ignitable hazardous waste?
N/A WASTE IS STORED ON RACKS DESIGNED TO HOLD DRUMS

265.178(e)(2)

b. Does the container height exceed 9 feet for outdoor storage of reactive or ignitable hazardous waste?
N/A SEE REPORT

265.178(e)(3)

c. Does the container height exceed 9 feet for either indoor or outdoor storage of non-reactive or non-ignitable hazardous waste? N/A SEE REPORT

265.178(e)(1) & (2)

26. Is there at least a 5 foot wide aisle for any storage area where reactive or ignitable hazardous is stored?

27. In the case of outdoor storage of reactive or ignitable waste: NO OUT DOOR STORAGE OF WASTE

Answer the following questions if the facility uses tank storage. **NO TANK STORAGE**

Answer the following questions if the facility uses CONTAINMENT BUILDINGS as a storage unit.
(effective February 18, 1993) **NO CONTAINMENT STORAGE BUILDING**

V. Recordkeeping and Reports

262.42 (b)

1. Does the facility prepare an Exception Report and submit it to the Pa. DER if a signed copy of the manifest is not received within 45 days of the date the waste was accepted by the initial transporter? YES NON NEED AS OF INSPECTION

If yes, does the Exception Report include:

262.42 (b) (1)

a. Legible copy of the manifest? yes no

262.42 (b) (2)

b. Cover letter explaining generator's efforts to locate waste and the results of those efforts? yes no

262.41 (a)

2. If the facility ships any hazardous waste off-site, does it prepare a Quarterly Report and submit it to Pa. DER by the appropriate dates (i.e., April 30, July 31, October 31, January 31)? YES

If yes, does the facility use the form designated by Pa. DER as its Quarterly Report and is it properly completed? YES

3. Does the facility provide to EPA, on at least a biennial basis (by March 1 of each even numbered year), the following:

262.41 (a) (6) (40 CFR)

a. A description of the efforts undertaken during the year to reduce the volume and toxicity of the waste generated? YES

262.41 (a) (7) (40 CFR)

b. A description of the changes in volume and toxicity of the waste actually achieved during the year? yes no

262.40 (a) (b) (c)

4. Does the facility retain copies of signed manifests,

Quarterly Reports, Exception Reports and test results/waste analyses for a minimum of 20 years from the date that the waste was last sent to on-site or off-site treatment, storage or disposal? YES

262.45

5. Has the facility submitted to Pa. DER, if required, a properly prepared plan relating to the disposal of its hazardous waste either at an on-site or off-site treatment or disposal facility? YES

262.46 (d)

6. Has the facility filed a properly prepared report with Pa. DER within 15 days of any event where a discharge or spill equal or greater than the reportable quantity for that given hazardous waste occurred or any discharges into surface or ground water? N/A



STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

SAFETY-KLEEN CORP.
STATE PRESCRIBED FORM

P.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761
State Form LPC 62 8/81 IL532-0610FOR SHIPMENT OF HAZARDOUS, INFECTIOUS
AND SPECIAL WASTE.

NOTE: FORM DESIGNED TO PRINT 8 LINES PER INCH

EPA Form 8700-22 (6-89)

Form Approved. OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. PAD 002311884	Manifest Document No. 10092	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but is required by Illinois law.	
3. Generator's Name and Mailing Address E. I. DUPONT DE NEMOURS & COMPANY MARSHALL R&D LABORATORY				Location If Different: 3500 GRAYSFERRY AVE. PHILADELPHIA, PA. 19146		
4. Generator's Phone (215) 339-6629				A. Illinois Manifest Document Number IL 5063439		
5. Transporter 1 Company Name HAZMAT ENVIRONMENTAL GROUP INC.				B. Illinois Generator's ID 9141211015307		
6. US EPA ID Number NYD980769947				C. Illinois Transporter's ID 117192		
7. Transporter 2 Company Name				D. (716) 877-5535 Transporter's Phone		
8. US EPA ID Number				E. Illinois Transporter's ID		
9. Designated Facility Name and Site Address SAFETY-KLEEN CORP. 1445 W. 42ND ST. CHICAGO, IL 60609				F. () Transporter's Phone		
10. US EPA ID Number 1 ILD005450697				G. Illinois Facility's ID 0316000053		
H. Facility's Phone 612-) 247-2828						
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ WASTE TETRAHYDROFURAN FLAMMABLE LIQUID UN2056 (EPA D001)		075	DM	04125	1	EPA HW Number XIXD0101 Authorization Number 000223
b.						EPA HW Number XIX Authorization Number
c.						EPA HW Number XIX Authorization Number
d.						EPA HW Number XIX Authorization Number
J. Additional Descriptions for Materials Listed Above (A) 95.3 WT % THF 3.7 WT % TOLUENE .7 WT % N BUTYLACETATE				K. Handling Codes for Wastes Listed Above in Item #14 1 = Gallons 2 = Cubic Yards 4125		
15. Special Handling Instructions and Additional Information (A) CONTROL NO. 0059685-4 EMERGENCY CONTACT# 800-424-9300				PA-AH 0315 B/L# DQCF 03869 SK# 39424866		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				Date Month Day Year 10/4/15/92		
Printed/Typed Name JOHN G. WELDON				Signature John G. Weldon		Date Month Day Year 10/4/15/92
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name EUGENE W. SCOFFIELD				Signature Eugene W. Scoffield		Date Month Day Year 09/15/92
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Date Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				Date Month Day Year 10/4/16/92		
Printed/Typed Name RONALD A PAWLAK				Signature Ronald A Pawlak		Date Month Day Year 10/4/16/92

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111 1/2 Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

Hazardous Waste Inspection Report Generators — Part A

Also, 'LOR' Inspection

Date of inspection 7/11/90 Time start 6:20 Time finish

Name of inspector Paul V. Panek

Company, installation name E. I. Du Pont De Nemours & Co. Inc. / Marshall Labs

Location 3500 GRAYS Ferry Ave.

County Philadelphia Municipality Philadelphia

Identification number PAD 002311884

Name of responsible official John Welton

Title Safety Coordinator

Mailing address Same

Area code and telephone number 215-339-6629

Name of person interviewed Same

Title _____

Mailing address (if different from above) _____

Area code and telephone number _____

1. Current waste handling method:

- a. ☒ On-site ☐ treatment, ☒ storage, ☐ disposal ☐ PBR
- b. ☐ On-site ☐ use, ☐ reuse, ☐ recycle, ☐ reclaim
- c. ☒ Off-site ☐ treatment, ☐ storage, ☒ disposal
- d. ☐ Off-site ☐ use, ☐ reuse, ☐ recycle, ☐ reclaim

2. Amount of hazardous waste produced:

- a. 3100 kg./mo.
b. _____ kg./yr.

3. Types of hazardous waste produced by Hazardous Waste Number and destination facility (include location and type).

Waste Number

Destination Facility

Location and Type

[illegible]

Hazardous Waste Inspection Report

Generators - Part B

1—No Violation Observed				2—Not Applicable	3—Not Determined	4—Non-Compliance
Status				REQUIREMENT		Chapter Citation
1	2	3	4			75.262
X				Hazardous waste determination, copies available		(b)
X				Identification number		(c)(1)
X				Hazardous waste shipments offered only to licensed transporters		(c)(4)
		X		Authorization received from TSD facility for wastes shipped off-site		(d)
X				PA manifest used for intrastate shipments		(e)(2)
X				Disposer state manifest or EPA format manifest used for out-of-state shipments		(e)(3)
X				Manifests filled out properly and completely		(e)(7)
X				Manifests routed properly and within time limits (7 days)		(e)(14) or (15)
X				Proper U.S. DOT shipping containers or packages		(f)(1)(i)
X				Shipping containers marked and labeled according to U.S. DOT		(f)(1)(ii)
X				Containers of 110 gal. or less marked with required PA label		(f)(1)(iii)
		X		Placards offered to transporter		(f)(2)
X				Wastes accumulated on-site for less than 90 days		(g)(1)(i)
X				Wastes stored in proper containers and properly marked and labeled		(g)(1)(ii)
X				Containers managed in accordance with 75.265(q)(1)–(9)		(g)(1)(iii)
X				Containers clearly marked with accumulation date and visible for inspection		(g)(1)(iv)
X				Records retained at designated location for 20 years		(h)
X				Quarterly reports submitted to the Department		(i)
		X		Exception reporting procedures followed		(j)
		X		Hazardous waste disposal plan, if required		(l)
		X		Spill reporting procedures followed		(m)(1)
X				Preparedness, Prevention and Contingency Plan and implemented		(m)(5)
	X			Special requirements followed for international shipments		(o)
			X	On the job or classroom personnel training program [75.265(f)]		(g)(1)(6)
X				Drum accumulation area inspected weekly as per 75.265(q)(5)		(g)(1)(iii)

**Hazardous Waste Inspection Report
Comments - Part C**

Date of Inspection July 11, 1990 Identification Number PAD002311884
Company, Installation Name E. I. DuPont DeNemours & Co. Inc. / Marshall Labs
County PHILA. Municipality PHILA.

On July 11, 1990, I, along with Jim Miller, Waste Mgt. Specialist Trainee, conducted a routine inspection of the above referenced facility. During this time, the following violations of the Department's Act 97, Solid Waste Management Act (1980) + Chapter 25, Hazardous Waste Mgt. Rules & Regulations were observed:

1) 75.265(f) - Facility Personnel should complete a Program of Classroom Instruction that teaches them Hazardous Waste Mgt. Procedures. The only documentation observed was for one (1) individual who consolidates the waste in the Storage Area. This training should be given to all individuals who come in contact w/ any of the Hazardous wastes generated at the facility. Proper documentation of this training should be retained until closure of the facility.

This inspection report is official notification that a representative of the Department of Environmental Resources, Bureau of Waste Management, inspected the above installation. The findings of this inspection are shown in this report. Any violations which were uncovered during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses and review of Department records. Notification will be forthcoming, confirming any violations indicated herein and listing any additional violations.

Person Interviewed (signature) Mailed to facility Date 7/27/90
Inspector (signature) Paul & Paul Date 7/27/90



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

1875 New Hope Street
Norristown, PA 19401
215-270-1948

August 7, 1990

Mr. John Weldon
E.I. DuPont Denemours & Co.
3500 Grays Ferry Avenue
Philadelphia Pa 19146

Re: Hazardous Waste Inspection
Marshall Labs
PAD002311884 / 7/11/90
Philadelphia County

NOTICE OF VIOLATION

Dear Mr. Weldon:

This letter is to confirm the findings of the Department's referenced inspection of your hazardous waste activities. Requirements for hazardous waste facilities are contained in Chapters 75.260 through 75.267 of the Rules and Regulations of the Department. Violations of applicable sections of these regulations found during our inspection are as follows:

- 75.265(f) - Facility personnel should complete a program of classroom instruction that teaches them hazardous waste management procedures. There was no documentation maintained on-site for this type of training.

You are hereby notified of both the existence of these violations as well as the need to provide for their prompt correction. Toward this end, you are requested to submit to the Department within fourteen (14) days a proposed program and schedule for the abatement of these violations. The Department's inspection report contains time periods of completion of remedial actions. These reports are either enclosed or have been previously supplied to you. If your proposed abatement program indicates certain corrections cannot be completed within these time periods, you are requested to supply justification for any extensions.

This letter does not waive, either expressly or by implication, the power or authority of the Commonwealth of Pennsylvania to prosecute for any and all violations of law arising prior to or after the issuance of this letter or the conditions upon which the letter is based. This letter shall not be construed so as to waive or impair any rights of the Department of Environmental Resources, heretofore or hereafter existing.



Mr. John Weldon
August 7, 1990
-2-

This letter shall also not be construed as a final action of the Department of Environmental Resources.

If you have any questions concerning this matter, please feel free to contact me at (215) 270-1948.

Very truly yours,



Paul V. Panek
Waste Management Specialist

cc: Mr. Bonner
Compliance
U.S.EPA
Division of Compliance & Monitoring